19C

08-37200

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March 26, 2008

## CERTIFIED MAIL - #7160 3901 9848 7545 7828 RETURN RECEIPT REQUESTED

Erin J. Rednour, Remedial Project Manager Illinois EPA Bureau of Land Division of Remediation Management Malicode 24 P.C. Box 19276 Springfield, IL 62794-9276

## <u>CERTIFIED MAIL - #7160 3901 9848 7545 7611</u> RETURN RECEIPT REQUESTED

Techlew Attn.: Ann Anderson 205 West Wacker Drive Suite 1622 Chicago, IL 60606

Re: Request for Information Relating to Chemetco

Modine Manufacturing Company

Dear Ms. Rednour and Ms. Anderson:

The follow is being submitted in response to IEPA's Request for Information Pursuant to Section 4(e) of the Illinois Environmental Protection Act and Section 104 (e) of CERCLA as they pertain to the Chemetoo Site in Madison County, IL. Modine received IEPA's request at its Trenton, MO facility on February 26, 2008, and is responding within IEPA's requested 30 day period.

Please contact me directly at 262.636.1412, or by email at t.e.meitner@na.modine.com if there are any questions.

Sincerely.

Thomas E. Meilner

Manager, Environmental Engineering

E. Whither

Keiky program

<u>ወር</u> ፣

 $REV_{i.}$ 

attachments

Modine - Jefferson City, MO Cc:

> Modine - Joplin, MO Modine - Trenton, MO

RECEIVED

MAR 3 1 2008

OCT 14 2009

RELEASABLE

IEPA-BOL-FSRS

REVIEWER MD

Tel. 262-838-1200 Fax. 262.636.1826 e-mail. t.e.meitner@na.modine.com

Modine Manufacturing Company 1500 Dakoven Avenue Racine, Wisconsin 53403-2552

1. Thomas Meitner, corporate Manager Environmental Engineering, Racine, WI

## Contacts:

- Thomas E. Meitner, corporate Manager Environmental Engineering, Racine, WI
- J. Robert Merritt, corporate Senior Buyer, Racine, WI
- Charles A. Bax, Manufacturing Engineer, Jefferson City, MO facility
- Travis J. Volmert, Plant Controller, Trenton, MO facility
- Eugene P. Michael, Plant Controller, Jopin, MO facility

Modine Manufacturing Company 1500 DeKoven Avenue Racine, WI 53403

Modine Manufacturing Company 1502 S. Country Club Drive Jefferson City, MO 65109

Modine Manufacturing Company 3300 West Seventh Street Joplin, MO 64801

Modine Manufacturing Company 822 Industrial Drive Trenton, MO 64683

- 3. Modine Manufacturing Company
- Documents consulted, examined, or referred to in the preparation of answers to these questions are summarized in the table found as Attachment #4-1.
- 5. Modine Manufacturing Company sold its business operations at the Emporia, Kansas facility in 2004. It is believed that the Emporia facility sent material to the Chemetoo site. The business is now owned by Prollance International, Inc. Inquires relating to the Emporia business and its use of the Chemetoo site should be directed to the following Prollance International Inc. contact:

Jeff Jackson Prollance International, Inc. 100 Gando Drive New Haven, CT 06513 (800) 755-2160

- Manufacturer of fabricated metal heat exchangers, radiators and similar products.
- 7. Persons having knowledge or information relating to the Chemetco site:

## Corporate Modine Manufecturing Company

- Thomas E. Meltner, corporate Manager Environmental Engineering, Racine, WI.
- J. Robert Merritt, corporate Senior Buyer, Racine, WI.
- James L. Peters, corporate Director Purchasing, Racine, WI.
- Larry R. Bastian, former corporate Buyer, current address unknown.

## Jefferson City, MO facility

- Charles A. Bax, Manufacturing Engineer, Jefferson City, MO facility.
- Dennis Bates, former employee, Jefferson City, MO facility, current address unknown.
- Chris Rook, former employee, Jefferson City, MO facility, current address unknown.

## Trenton, MO facility

- Travis J. Volmert, Plant Controller, Trenton, MO facility.
- Johnny B. Kidd, Buyer, Trenton, MO facility .

## Joplin, MO facility

Eugene P. Michael, Plant Controller, Joplin, MO facility.

## Proliance-Emporia, K\$

 George Shipp, former Emporia, KS (Proliance International, Inc. employee), current address unknown.

## Chemetco

- Jack Henry, Chemetco, current address unknown.
- Ryan Hicks, Chemetco, current address unknown.
- Modine, itself, undertook no activities at the Site. As such, Modine did not have policies or
  procedures for the handling of "hazardous materials" in the course of "our" activities at the site as
  stated in IEPA's request under this item.
- Employees who have responsibility for the company's environmental matters:
  - Thomas E. Meitner, corporate Manager Environmental Engineering, Racine, WI.
     Employed at Modine 1984 to the present. Responsible for corporate environmental functions.
  - Charles A. Bax, Manufacturing Engineer, Jefferson City, MO facility. Employed at Modine 1989 to the present. Responsible for facility environmental functions.
  - Dyle B. Wilson (Trenton), Senior Manufacturing Engineer, Trenton, MO facility. Employed at Modine 1971 to the present. Responsible for facility environmental functions.
  - Ronald B. Kegerries, Process Specialist, Joplin, MO facility. Employed at Modine 1979 to the present. Responsible for facility environmental functions.

- Information demonstrating Modine's compliance with respect to recycling of materials per Section 127 of CERCLA, 42 U.S.C. 9627;
  - Section 9627 (b) (1): Modine shipped only recyclable materials in accordance with this section of CERCLA as demonstrated by: the listing of materials shipped (Attachment #18-1), as indicated in the condensed summary table (Attachment #18-11), as described in the Bills of Lading from Modine's Jefferson City, MO facility (Attachments #28-7 through #28-52), and the electronic report for the Joplin, MO facility scrap shipments (#28-53). It cannot be stated with certainty if the shipping containers that may have been used for some scrap shipments were themselves a recyclable material.
  - Section 9627 (b) (2): To the best of Modine's knowledge, polychlorinated biphenyls
     (PCBs) were never used in Modine operations. No electrical transformers or liquid wastes,
     including waste oils, were sent to the Site by Modine as demonstrated by the above
     response. As such, it is believed that no PCBs were shipped by Modine to the Site.
  - Section 9627 (b) (3): No scrap paper, plastic, glass, textiles, or rubber materials were sent to Chemetco (see the attachments referenced in the first bullet point above).
  - Section 9627 (d) (1) (C); Modine scrap was not melted prior to arrangement for shipment to the Site. The descriptions of the scrap materials as noted in Attachment #18-11, as indicated in the Jefferson City, MO facility Bill of Ladings (Attachments #28-7 through #28-52), and as indicated in the electronic report for the Joplin, MO facility scrap shipments (#28-53) include terms indicative of scrap generated in the normal course of manufacturing, and that no terms appear on the shipping paperwork or associated records which would be indicative of "melting" (such as: ingots, dross, smelted, melted, or similar terms). The descriptors on the paperwork and associated records do include: cores, radiators, headers, tanks, tubes, which are terms describing specific articles of Modine's production process that would exist only in an "un-melted" state.
  - Section 9827 (d) (3): Modine scrap shipments form its Jefferson City and Trenton MO facilities specifically included radiators, which would have been soldered, as defined as "scrap metal" in this regulatory citation.
  - Section 9627 (e): No batteries were sent to Chemetoo (see the attachments referenced in the first bullet point above).
  - Section 9627 (f): Upon Modine's discovery that the Site filed for bankruptcy, Modine ceased shipments to the site with its final shipment to Chemeton dated November 2, 2001.
- 11. No.
- 12. No.
- 13. Modine shipped no materials intended for disposal to Chemetco. Modine shipped only scrap metal to the Site for reclamation. Those shipments included; copper, brass, and aluminum scrap metal. MSDS sheets specific to each of these shipments cannot be obtained or may not currently be available. However, Modine is providing within this request MSDS sheets that would be typical of the metals used at Modine's facilities during the period of their scrap shipments to the Site. See attachments #13-1 (copper), #13-2 (brass), #13-3 (aluminum).

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- 14. Yes. USEPA requested Modine to furnish information concerning the Eigin Salvage and Supply Company dated January 24, 1995. Modine was unable to locate the request, however is providing its response (Attachment #14-1).
- 15. No.
- Not applicable.
- 17. Identification Numbers:

Jefferson City, Missouri facility:

USEPA Identification Number: MOD 000 610 816

RCRA Number: n/a

State of Illinois Number: It is believed that an IEPA ID exists for the Jefferson City facility.

However, this ID has not been used for many years, and could not be located.

Joplin, Missouri facility:

USEPA Identification Number: MOD 087 775 920

RCRA Number: n/a

State of Illinois Number: n/a

Trenton, Missouri facility:

USEPA Identification Number: MOD 043 942 291

RCRA Number: n/a

State of Illinois Number: IL 9290795300

- Scrap shipments from Modine to the Site are listed in Attachment #18-1.
  - a. Scrap shipments were sent to Chemetco under the terms identified in the following pricing agreements: July 31, 2000 (Attachments #18-2, #18-3, #18-4) and September 19, 2000 (Attachment #18-5). A cover letter dated May 7, 1999 referencing Modine's contractual arrangements with Chemetco is furnished (Attachment #18-6) together with a spreadsheet entitled "Midwest Plant Scrap Quotation Recap 4/1/98 3/31/99" (Attachment #18-7).

Correspondence and notes are included in Attachments #18-8 and #18-9 as they pertain to discussions and arrangement for disposal of scrap from Modine's Jefferson City facility and the Site.

Also included with this response is a contract dated July 31, 2000 for Modine's formerly owned business operation in Emporia, KS (attachment #18-10). That business is now owned by Proliance International, Inc.

- It is believed that scrap shipments were sent directly to Chemetco, and not shipped through an intermediate delivery point.
- It cannot be definitely known which specific Modine employees arranged for scrap metal shipments to the Site.
- d. See Attachment #18-1.
- Scrap metals shipped by Modine to Chemetop originated as byproducts of radiator and similar heat exchanger manufacturing using copper, brass, steel, and aluminum metals.

The manufacturing processes from which the scrap originated included metal forming, machining, and assembly.

- f. The exact composition of each shipment cannot be determined, however material content percentages for typical redictors and scrap were used to estimate scrap content. A condensed summary of Modine shipments by metal type and by year was developed based on these typical percentages, and is found in Attachment #18-11. No lead solder dross, powders, or sludges were shipped to the Site (also see responses for Question #10). Solder dross generated at Modine facilities was managed at the Encycle facility in Corpus Christi, TX through February 2000, and afterward by Alpha-Fry Technologies in Altoona, PA (Attachment #18-12). The resultant reclaimed solder from those reclamation suppliers was returned to Modine for use in the manufacturing process.
- g. All materials sent to Chemetco were solid scrap metals. The characteristics and weight of those scrap metal shipments are summarized in Attachment #18-11.
- Modine's scrap metals were not tested to determine if they exhibited the characteristics of a hazardous waste.
- At the time Modine shipped screp to Chemetoo, Modine understood the implied activities performed by Chemetoo at the Site included: the sorting, combination and repackaging of scrap metal followed-by Chemetoo's off-site shipment to a metals smelting or other similar processing facility.
- Not applicable. No hazardous material as defined by 40 CFR 261 was believed to be disposed of or treated at the Site.
- k. None known.
- General details of Materials sant for recycling:
  - See responses to item #18.
  - b. See Attachment #18-1.
- 20. No additional information.
- 21. Scrap metal responses:
  - a. See tables in Attachment #18-11.
  - Yes, a market existed for Modine's scrap. See pricing structure and applicable markets and their respective specifications per contracts Modine held with Chemetco (Attachments #18-2, #18-3, #18-4, and #18-5)
  - See response to #21.b.
  - d. The intended disposition of Modine's scrap metal was recycling and reuse as raw material. The Intended disposition of Modine scrap did not include its use as a fuel, or for energy recovery of incineration.
  - It was assumed that 100% of Modine scrap was to be recycled and reused as a feedstock for manufacturing of new saleable products.

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- f. In some cases where Modine scrap was a single metal, it is possible that the single-metal scrap could have been used as a replacement or substitute for a virgin raw material. In cases when the scrap was a combination of various metals, it is possible that some processing would be needed prior to offering a recycled metal for reuse as a virgin meterial.
- g. No.
- h. Modine did not melt or otherwise process the scrap metal listed in Question #21.a prior to its shipment to the Site. No dross, skimmings, or sludges were sent to the Site. Also see responses to Questions #10 and #18.f.
- Modine transactions with Chemetco were an "outright sale" as stated in the contacts
  provided with this response (Attachments #18-2, #18-3, #18-4 and #18-5).
- See response to Question #18.e.
- 22. The content of scrap material sent to Chemetoo is described in the response to Question #18.f (and as indicated in Attachment #18-11). It is possible that a limited amount of metal working tubricants, as would be customarily expected for metal working processes, may have adhered to some scrap Modine sent to the Site. It is not possible for Modine to determine the type/s of lubricants, amount of any such lubricants, or the type of scrap they may have adhered to other than to state that they were incidental to the scrap metal.
- 23. No. Although Modine sent three shipments (884 pounds total) of weld "wire" sent to the Site, this scrap description was not electrical wiring. The weld wire was used for a welding process and is not believed to fall within the "wiring" scope of IEPA's question.
- 24. Yes. Some physically smaller scrap pieces were shipped to the Site from Modine's Jefferson City and Trenton, MO facilities in drums. The volume of the Jefferson City drums was 55 gallons. As noted on the Jefferson City facility Bills of Lading and Packing Lists (Attachments #28-7 through #28-52), the drums were free of hazardous materials. The volume of the Trenton facility drums is not known, other than it is expected that those individual drum volumes would not have exceeded 55 gallons in capacity. It is believed that drums from both Modine locations did not contain liquids or wastes of any kind.
- See response to Question #18.i. No visits to the Site were conducted by Modine.
- No known steps taken by Modine to determine if the Site was in regulatory comptiance.
- 27. Modine conducted, and continues to conduct, practices for scrap management on its manufacturing sites consistent with USEPA guidance on Stormwater Pollution Prevention Plans and Best Management Practices. Modine's practices consisted of, among other activities, the accumulation and storage of scrap to prevent exposure to precipitation. This included the accumulation and storage of scrap indoors when possible or otherwise sheltered from the elements. As such, it is believed that scrap metal sent to the Chemetoo Site did not contain free liquids or other materials capable of being released upon their receipt at the Site.
- 28. Modine facilities in Jefferson City, MO, Joplin, MO, and Trenton, MO were in regulatory compliance with respect to scrap storage, transport and management within the timeframes of scrap shipments to Chemetco (1997 to 2001). See the responses provided for Question #10. With respect to Modine's on-site accumulation and storage of scrap metals, Modine's compliance status consisted.

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of: Stormwater Pollution Prevention Plans Included as Attachments #28-1 (Jefferson City, MO), #28-2 (Joplin, MO), and #28-3 (Trenton, MO). An example Best Management Plan inspection report is provided as Attachment #28-4 (Jefferson City, MO). Shipping Bills of Lading and Packing Lists for Jefferson City, MO facility shipments to Chematoo are provided as Attachments #28-7 through #28-52. A summary table and print-out of an electronic accounting report for scrap brass shipments from Modine's Joplin, MO facility are included in Attachment #28-53.

- Questions related to Batteries #29.a through #29.k are not applicable. Modine did not ship batteries to Chemetco.
- Question related to Batteries not applicable. Modine did not ship batteries to Chemetoo.
- Questions related to Batteries not applicable. Modine did not ship batteries to Chemetoo.
- Questions related to Batteries not applicable. Modine did not ship batteries to Chemetop.
- Questions related to Batteries not applicable. Modine did not ship batteries to Chemetco.
- 34. Paper, plastic, glass, textiles, or rubber scrap responses:
  - a) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - b) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - d) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - e) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetco.
  - j) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetop.
  - k) Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship any of these materials to Chemetoo.

- Question related to: paper, plastic, glass, textles, or rubber not applicable. Modine did not ship
  any of these materials to Chemetco.
- Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship
  any of these materials to Chemetco.
- Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship
  any of these materials to Chemetco.
- Question related to: paper, plastic, glass, textiles, or rubber not applicable. Modine did not ship
  any of these materials to Chemetco.
- 39. Questions related to Electrical and Electronic equipment not applicable.
- 40. Questions related to Electrical and Electronic equipment not applicable.
- Questions related to Electrical and Electronic equipment not applicable.
- 42. Questions related to Electrical and Electronic equipment not applicable.
- Questions related to Electrical and Electronic equipment not applicable.

Attachment #4-1
Summary of Documents consulted, examined, or referred to in the preparation of Modine's response to IEPA's request.

Document ID	Document Date	Document Description	Responsive to IEPA Question #
13-1	Apr 13, 1998	Retcliffs/Severn Ltd. MSDS for Copper	13
13-2	Jan 9, 2008	Olin Brass MSDS for Brass	13
13-3	Jul 14, 2006	Alcan Aluminum MSDS for Aluminum	13
14-1	Aug 15, 1995	Modine letter to the USEPA re Elgin Satvage & Supply	14
18-1	Mar 21, 2008	Modine Manufacturing Company - Listing of Scrap Shipments to Chemetco	10,18,18.d,19.b
18-2	Jul 31, 2000	Chemetco Pricing Agreement with Modine's Jefferson City, MO facility	18.e, 21.b,21.i
18-3	Jul 31, 2000	Chemetoo Pricing Agreement with Modine's Joplin, MO facility	18.a, 21.b,21.i
18-4	Jul 31, 2000	Chemetoo Pricing Agreement with Modine's Trenton, MO facility	18.a, 21.b,21.l
18-5	Sep 19, 2000	Chemeteo Pricing Agreement with Medine's Jefferson City, MO facility for ferrous scrap	18.a, 21.b,21.i
18-6	May 7, 1999	Modine letter to Chemetco stating its intent to contract with Chemetco for scrap disposal	18.a
18-7	May 4, 1999	Spreadsheet entitled "Midwest Plant Scrap Quotation Recap 4/1/98 - 3/31/99"	18.a
18-8	Mar 21, 2001	Internal Email form C. Bax of Jefferson City	18.a
18-9	Not dated	Jefferson City notes	18.a
18-10	Jul 31, 2000	Chemetoo Pricing Agreement with the Emporia, KS business now owned by Proliance International, Inc.	18.a
18-11	Mar 24, 2008	Modine Manufacturing Company – Summary by Year of Scrap Shipments to Chemetco (6 pages)	10,19.f, 18.g, 21.e,22
18-12	Not dated	Alpha-Fry pricing proposal to Modine for solder dross disposal	10.f
28-1	Oct 24, 2005	Stormwater Pollution Prevention Plan ~ Jefferson City, MO facility	28
28-2	Nov 8, 2006	Stormwater Pollution Prevention Plan – Joplin, MO facility	28
28-3	Sep 27, 2007	Stormwater Pollution Prevention Plan – Trenton, MO facility	28
28-4	Jan 5, 2001	Stormweter Best Management Practice Weekly Inspection form – example from Jefferson City, MO facility	28
28-5	n/e	(attachment ID not used)	

28-5	r√a	(attachment ID not used)	28
28-7 — 28-52	Various dates: Apr 13, 1998 Oct 12, 2001	Bills of Lading and Packing Lists for scrap shipments sent form Modine's Jefferson City, MO facility to Chemetco	10,28
28-53	Mar 17, 2008	Summary Table and printed electronic report of scrap brass shipments form Joplin, MO facility to Chemetco	10,20

printed 04/20/2010 1:10PM by epa4267 p. 12/223

The up date

Ratciiffs/Severn Ltd., 20037 Theory Street Rickment Mil. Ontario Canada LAC SCS Phone: (905) 225 -7575 Paz: (905) 814 - 7422

Date: April 19, 1998

## MATERIAL SAFETY DATA SHEET

IDENTITY

COPPER STREE (CDA ALLOY # 14300)

HAZARDOUS INGREDIENTS / (DENTITY INFORMATION

COPPER (Cx) CAZIMIUM (C4)

**₹**01**%** 

PHYSICAL / CREMICAL CHARACTERISTICS

BOILING POINT: NA VAPOUR PRESERVE: 1 mm. @ 1628 dag. C.

SECOMO CELLATE MELTING POINT:

1 M 1663 dec. C.

VAPOUR DEMESTY: NA

EVAPORATION RATE:

HIS by per to, center

SOLÜBILITY İN WATER: Incibile APPEARANCE AND ODOUR: browdek mod. No sdeet

FIRE AND EXPLOSION HAZARD DATA

FLASS POINT:

INTIPICIIISENIUG MEDIA: – Do not tibe under on medal firm. Die pormiered gruphita, delemita, sodiem eblorida or other

ensurial solitable for them "D" first.

SPECIAL FIRE FIGHTING PROCEDURES: West self-contained branching apperatus (SCRA)

ACITY DATA

PYTHURATE

CONDITIONS TO AVOID: Contact with streng stability agents and

- UTSTABLE

- BTABLE TYPE

INCOMPATIBLETY: (meterials to avoid) Strong coldining agents, exids, halogens, and obserted.

HAZARDOUB FULYMERIZATION: WILEST OCCUR.

RAZARDOUS CONDUSTION OR DECOMPOSITION PRODUCTS: Copper Oxide Sames, Codmican Oxide Serves

HEALTH HAZARD DATA

MEALTS RAZARDS: (acute and circuit) - Applicable when metal is bested to molten state and producing funces.

EYE CONTACT: May exuse britishes end/or discolaration.

SKIN CUNTACT: NA

Experience to high communications of Copper feature may lead to britation of the upper respiratory tract, its, manyon, makel feature feature, and in some instances, disputeration of the side and hair. DEALATION:

If Copper sails in mellichant connections over their genera installant tract, they act as irritates

producing militation, minum, vending, grates pain, homorrhagic quantific, and distribut.

OCCUPATIONAL EXPOSURE LIMITS: A.C.G.LEL TLV-TWA: Copper State - 0.3 mg/m3; Copper durin & minu - as Cu-1 mg/m3.

OSMA P.C.4. Copper State - 0.1 mg/m3; Copper durin & minu - 1 mg/m3.

Copper franc (as copper) - 1.3 rag/a.3; Copper start and minte (as supper) - 1, asp/a.3. Ontaclo T.W.A.E.V.

(in other jurisdictions, pirent commit appropriate occupational experent regulations.)

PRECAUTIONS FOR SAFE HANDLING AND USE

WASTE DISPOSAL METHOD: Sweep up, place in equitation and hold for disposal Demontal copper should be resourced

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No special processions when storing or handling solid nemilie espper.

THE HAT PRO-YEL

Page 2 of 2

CONTROL MEASURES

VENTILATION: Adequate verificies to help work area concentration below the occupantional exposure Emba.

PROTECTIVE GLOVES

EYE YROTECTRUM

Salety glasses or grander

OTHER PROTECTIVE CLOTHING OR EQUIPMENT)

resistant elektring and first stability gives be

when handling molton copyer,

WORK/BYGERIC PRACTICILE:

FIRST AID MEASURES

EYE CONTACT: First with distinct water. Get medical attention & irritation persists.

SKIN CONTACT: Wesh theroughly with your and water.

INTALATION OF DOST OR FUNE: Remove from continuinted area, if not branthing give artificial requiretion, if breathing is difficult, give expense. Get medical attention.

INCESTION: Independently.

## ADDITIONAL INFORMATION

The information presented by believed to be accepted and appressing the best information conventy available to us. However, we make no warriesty expressed or implied with respect to such information and my annate so fighthy resulting from its use. The information presented duals with copper strip as it is appelled to the continuer de well so the disposal by melting under normal frendry privation.

WHILE CLASSIFICATION:

NONE ESTABLISHED

TDG CLASSIFICATION:

NOT REGULATED

CLOSSARY

A.C.G.I.H. - American Conference of Correspondent Ladouteial Physics TLV-TWA -Threshold Limit Value - Time Walghted Average: The time-weighted average

essentivities for a nearmal 2-liver working day or 2 40-boor, work work, to which entrity all workers until he repeatedly expected, day after day without adverse effect. OSMA - Occupational Salary and Month Administration.

P.E.L. - Percelulida man

T.W.A.L.Y. - Time-Weighted Average Exposure Value. The everage of the airborne consequentless of a biological or chemical agree determined from air complete of the airborne consequences to which a rether in expensed in a work day or a work week.

FORM COMPLETED BY:

J. VAN BER VALK, QUALITY MANAGER BATCLUFF SEVERN LTD.

DATE COMPLETED/REVISED:

April 13, 1993





Page 1 of 6

Olin MSDS No.:00005.0001

Revision No.: 10

Revision Date: 1/9/08

Supercedes: 1/1/07

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

BRASS ALLOY

Chemical Name:

Matal Alloy

Synonyms:

Copper-Zinc Alloys, UNS/CDA Alloy Nos. C20000 - C29999

Chemical Family:

Copper-Zinc

Formula: Product Use: Not applicable - mixture Metallurgical Products

COMPANY ADDRESS

MSDS Control Group

TECHNICAL

EMERGENCY TELEPHONE NUMBER:

Olin Brass and

INFORMATION: 618-258-3507 1-888-2891-911

Winchester

427 North Shamrock St. East Alton, IL 62024-

1197

www.olinbraes.com olinmads@olin.com

#### COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Components	% By Weight	SINECS/ ELINCS	EU Clas	sification
		Ţ	# (	Symbol	R-Phrase
7440-50-B	Copper	59 - 96	231-159-6	None	None
7440-66-6	Zinc	4 - 41	231-096-4	Bno%	None
7439-92-1	Lead	0.03 - 0.3	231-104-6	None	None

OSHA REGULATORY STATUS:

In solid form, not hazardous. Dust or fume: carcinogen, icritant, lung, blood, kidney, reproductive and developmental toxin,

neuzotoxin

this material is not hezardous. solid form, Dust and fumes are hazardous materials.

## HARADDS IDENTIFICATION

WARNING!

EXPOSURE TO DUST OR FUMES CAN CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. CONTAINS A MATERIAL WHICH MAY CAUSE BLOOD, KIDNEY, REPRODUCTIVE AND NEUROLOGICAL EFFECTS. CONTAINS A MATERIAL WHICH MAY CAUSE CANCER. USE ONLY WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

HAZARD RATINGS (for dust or fume) Hazardous Materials Identification

Degree of hazard (0 = low, 4 = extreme)

Health: 2\*

flammability: 0

Physical Hazard:

None

National Fire Protection Association Mixture. Not rated. (NFPA)

HUMAN THRESHOLD RESPONSE DATA

Odor Threshold:

System (HMIS)

Unkanyo

Irritation Threshold:

Unknown

Immediately Dangerous to Life or Health The IDLH for this product is not known.

The IDLH

(IDLH) Value(s): for copper and lead is  $100 \text{ mg/m}^3$ .



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## POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

Dust or fume can cause irritation consisting of radness, swelling, and pain. May Eye:

cause conjunctivitis with repeated exposures.

Naterial not expected to be absorbed through the skin. Contact with dust may Skin:

cause mild irritation consisting of redness and/or swelling.

Harmful if inhaled. Inhalation of high concentrations of powder, dust, or fume Inhalation:

may cause severe respiratory and nasel irritation, coughing, and difficulty breathing. Inhalation of high concentrations of metallic copper dusts or fumes may cause masal irritation and/or nauses, vomiting and stomach pain. The metal fume may also produce influenza-like symptoms, known as metal fume fever. Symptoms of this reaction may include metallic taste, runny nose, nausea, fever and chills.

These effects usually disappear within 24 hours, but may be delayed in onset.

Ingestion:

EFFECTS:

Ingestion of large amounts of dust may cause nausea, diarrhea and or stomach pain. CHRONIC Prolonged or repeated skin contact with dust may cause more severe irritation or

Prolonged or repeated inhalation of dust or fume may cause more dermatitis. severe irritation. Chronic exposure to lead can cause kidney damage, anemia,

reproductive effects, developmental affects and permanent nervous system damage in

humans including changes in cognitive function.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Exposure to dust or fume may aggravate an existing dermatitis, blood condition, asthma, emphysema, or other respiratory disease.

POTENTIAL ENVIRONMENTAL EFFECTS:

None known. Product has not been tested for environmental properties.

#### FIRST AID MEASURES

Immediately flush out fume and dust particles with large amounts of water EYE CONTACT:

for at least 15 minutes, occasionally lifting the upper and lower syelids.

If eye irritation develops, call a physician at once.

If exposed to dust or fumes, wash skin with plenty of water. Remove SKIN CONTACT:

contaminated clothing and shoes and launder before reuse. If skin

irritation or rash develops and persists or recurs, get medical attention.

INHALATION: If symptoms of lung irritation occur (coughing, wheezing or breathing

difficulty), remove from exposure area to fresh air immediately. If

breathing has stopped, perform artificial respiration. Keep affected person

warm and at rest. Get medical attention.

Not a likely route of exposure for finished metal alloy. If dust is INGESTION:

ingested, immediately drink water to dilute. Consult a physician if symptoms

develop.

There is no specific antidote to the active ingredients in this product, use NOTE TO PHYSICIANS:

symptomatic treatment.

## FIRE FIGHTING MEASURES

PROPERTY   VALUE	PROPERTY   VALUE	PROPERTY
Flammable No	Explosive No	Explosive
Pyrophoric No	mbustible No	Combustible
Burning Rate of Material: Not applicable	oint (°C): Not applicable	Flash Point (PC):
Autoignition Temp.: Not applicable	Explosive Not Limit: applicable	Lower Explosive Limit:
ammability Classification: (defined by 29 CFR 1910.1200) Not applicable		Upper Explosive

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EXTINGUISHING MEDIA:

Dust may cause an ignitable and/or an explosive atmosphere. For localized powder fires, smother with dry sand, dry dolomite, sodium chloride or soda ash. Use fire-

extinguishing media appropriate to fight surrounding fire. None required.

SPECIAL FIREFIGHTING\_PROCEDURES:



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#### ACCIDENTAL RELEASE NEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMITREC AT 800-424-9300. In dust form, this product may be an explosion hazard. Remove all sources of ignition. Dust of fume may be suppressed by the use of a local exhaust system. Dispose of per guidelines under Section 13, WASTE DISPOSAL.

#### HANDLING AND STORAGE

HANDLING: STORAGE: Avoid dispersion of dust in air.

Shelf Life Limitations:

No apecial requirements. None known.

Incompetible Meterials for

or Transport:

None known.

Packaging: Incompatible Materials for Storage

None known.

OTHER PRECAUTIONS:

Do not shake clothing, rags or other items to remove dust.

Dust should be removed by washing or HEPA vacuuming.

#### B. EXPOSURE CONTROLS/PERSONAL PROTECTION

ÇAS <b>#</b>	CHEMIÇAL HAME	ACGIH TLV	OSHA PEL	INTERNATIONAL QELS
7440-50-8	Copper	0,2 mg/m³ (fume), 1 mg/m³ (dusts and mists)	0.1 mg/m' (fume) 1 mg/m' (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m³ (fumes), 1 mg/m³ (dusts)  Denmark: 1.0 mg/m³ (dust and powder)  Germany (MAK): 0.1 mg/m³ (fume), 1  mg/m³ (dusts and mists)
7440-66-6	Zinc	None established	None established	None established
7439-92-1	Lead	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m <sup>3</sup> Norway, Poland: 0.05 mg/m <sup>3</sup>

If this product is heated and fumes are generated, zinc oxide fumes could be formed. The ACGIH TLV and OSHA PEL for zinc oxide fume is  $5 \text{ mg/m}^3$ .

ENGINEERING CONTROLS:

local exhaust ventilation is recommended if significant

dusting occurs or fumes are generated. Otherwise, use general

exhaust ventilation.

EYE / FACE PROTECTION:

Ose safety glasses.

SKIN PROTECTION:

Wear impervious (cut-resistant) gloves and other protective clothing (aprons, coveralls) as appropriate to prevent skin contact when using this product. If generating a dust, wash thoroughly after handling, especially before eating, drinking,

or amoking.

RESPIRATORY PROTECTION:

Respiratory protection not normally needed. If dusting occurs or fumes are generated above the PEL/TLV, use a NIOSH-approved

half-face or full-face respirator equipped with High

Efficiency Particulate (HEPA) filter cartridges.

GENERAL HYGIENE CONSIDERATIONS: Do

Do not eat, drink, or smoke while using this product in dust form.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Red/gold matallic	Vapor Density (air = 1):	Not applicable
Odor:	None	Boiling Point (°F):	No data
Molecular Weight:	Not applicable - Mixture		L:930 - 1065°C (1710- 1950°F) S:905-1050°C (1650-
Physical State: pH:	Solid Not applicable	Specific gravity (g/cc): Bulk Density	



Page 4 of 6

PROPERTY	VALUE	PROPERTY	VALUE
Vapor Pressure (mm Hg):	Not applicable	Viscosity (cps):	Not applicable
Vapor Density	Not applicable	Decomposition	Not applicable
		Temperature:	
Solubility in Water (20	Negligible	Evaporation Rate:	Not Applicable
°€) ±		_	
Volatiles, Percent by	Not applicable	Octanol/water partition	Unknown
volume:		coefficient:	

## 10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal temperatures and pressure.

CONDITIONS TO AVOID:

Not affected by mechanical impact or shock or by electrical

discharge.

MATERIALS TO AVOID:

Acetylene, chlorine

HAZARDOUS DECOMPOSITION PRODUCTS:

When heated to decomposition, may produce metal oxides and fumes.

Inhalation of high concentrations of metal fumes may cause a

condition known as "metal fume fever" which is characterized by

flu-like symptoms.

HAZARDOUS POLYMERIZATION:

Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

POTENTIAL EXPOSURE ROUTES: For dust: ingestion, inhalation, and eye contact. For fume: inhalation and eye contact. The finished alloy metal is not hazardous.

## ACUTE ANIMAL TOXICITY DATA:

For Product: (dust or fume):		For Components				
		Copper	î.ead	2inc		
Oral LD <sub>50</sub>	Believed to be moderately toxic	3.5 mg/kg (mouse, intraperitoneal)	No data	No data		
Dermal LD <sub>50</sub>	Believed to be > 2 g/kg	375 mg/kg (rabbit, subcutaneous)	No data	No data		
Inhelstion LC <sub>50</sub>	Believed to be slightly to moderately toxic	No data	No data	No data		
Irritation	Believed to be an eye and respiratory irzitant	Respiratory irritant	Not irritating	Eye irritant		

SUBCERONIC/ CHRONIC TOXICITY:

CARCINOGENICITY:

MUTAGENICITY:

REPRODUCTIVE, TERATOGENICITY, OR

DEVELOPMENTAL EFFECTS:

NEUROLOGICAL EFFECTS:

INTERACTIONS WITH OTHER CHEMICALS

WHICH ENHANCE TOXICITY:

No information for product. Lead has caused blood, kidney and nervous system damage in laboratory animals.

This product is not known or reported to be carcinogenic. The International Agency for Research on Cancer (IARC) lists lead

as possibly carcinogenic to humans, group 2B.

This product is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several in vitro assays.

This product is not known or reported to cause reproductive or developmental effects. Lead has been shown to affect fetal development including birth defects and reduce male reproductive function in laboratory animals.

This product is not known or reported to cause naurological effects. Lead has caused peripheral and central nervous system damage and behavioral effects in laboratory animals.

None known or reported.



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#### ECOLOGICAL INFORMATION

ECOTOXICIPY: No data is available on this product. Individual constituents are as follows:

Copper:

The toxicity of copper to aquatic organisms varies significantly not only with the species, but also with the physical and chemical characteristics of the water, such as its temperature, hardness, turbidity and carbon dioxide content. Copper concentrations varying from 0.1 to 1.0 mg/l have been found by various investigators to be not toxic for most fish.

However, concentrations of 0.015 to 3.0 mg/l have been reported as toxic, particularly in soft water to many kinds of fish, crustaceans, mollusks,

insects, and plankton.

Lead:

LC<sub>sc</sub>(48 hrs.) to bluegill (Lepomis macrochirus) is reported to be 2-5

mg/l. Lead is toxic to waterfowl.

MOBILITY:

Dissolved lead may migrate through soil.

PERSISTANCE/DEGRADABILITY: Lead may persist and accumulate in the environment. BIOACCUMULATION:

No data

#### 13, DISPOSAL CONSIDERATIONS

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. This product may be a candidate for metal reclamation.

#### 14 TRANSPORT INFORMATION

	0.5.	DOT	RID/ADR	IMDG	IATA	IMO	Canada	TDG
PROPER SHIPPING NAME:				Not req	yvlated			
HAZARD CLASS:								
UN NO.:								
PACKING GROUP:								
LABEL:								
REPORTABLE QUANTITY:								

## 15. REGULATORY INFORMATION

#### US FEDERAL

TSCA	The components of inventory.	this product	are listed	on the Toxic	Substance Control Act	
CERCLA:	Zinc, R.Q. = 1000 lbs.; Copper, R.Q. = 5000 lbs.; Lead, R.Q. = 10 lbs. No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).					
SARA 313:	Copper, Zinc (fum	e or dust), [	æad			
SARA 313 Hazard	Health:	Acute -	Fire:	Reactivity:	Release of Pressure:	
Cless:	For dust or fume	Yes,	Nane	None	None	
	only	Chronic -	1			
<u> </u>		Yes				
SARA 302 EHS List:	None of the compo	nents of this	product ar	re listed.		

RQ - Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

Component	*CA Prop. 65	Hew Jersey	Pennaylvania	Massachusetts	Michigan
Copper	Not listed	X	X	х	Х .
Zinc	Not listed	X	Not listed	X	х
Lead	X	Х	х	Х	X

\*\*MARNING: This product contains detectable assumts of a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm."





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#### **EUROPEAN REGULATIONS**

**C**lin

Because this may material contain lead at > 0.2%, this material is classified as **Xn**, **Example 1**. However, this material in its massive solid form is not required to be labeled under EC regulations.

German WGK Classification: Unknown

## CANADIAN REGULATIONS

DSL LIST:

The components of this product are on the DSL or are exempt from reporting under the

New Substances Motification Regulations.

IDL:

Copper, Lead

WHMIS:

This product is considered to be a manufactured article and therefore not subject to

WHMIS requirements.

## 16. OTHER INFORMATION

PREPARED BY: Olin Brass and Winchester, Inc.

<u>NOTICE:</u> THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

# 13-3 P.1/5

Revision date: 2008-07-14

Alcan aluminum metal, 2XXX serie allovs

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Alcan aluminum metai, 2XXX serie alicys.

PRODUCT NUMBER:

000166 (P5542)

SUPPLIER:

Alcan Inc.

Primary Metal Group

1188, Sherbrooke West

Montréal, Québec

Canada H3A 3G2 Emergency phone: 1-800-567-7455 \*

Phone :

514-848-8000

Fax:

514-848-6115/8116

\* Plagag cell collect for putaida calls of North America.

SYNONYMS:

20323, 20319, 20310, 20313, 20324

APPEARANCE AND ODOUR:

Grey to silver solid; odorless.

USES:

Primary metal.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	LD <sub>50</sub>	LC <sub>M</sub>	CONC.
Aluminum	7429-90-5	Unknown	Unknown	> 98%
Copper	7440-50-8	Unknown	Unknown	< 1%
Mangenese	7439-96-5	9000 mg/kg (oral-rat)	Unknown	0 - 0.5%
Silicon	7440-21-3	3150 mg/kg (oral-rat)	Unknown	< 0.2%

For more detailed of emposition, refer to the certificate of analysis.\*

## 3. HAZARDS IDENTIFICATION

Not hazardous.

## 4. FIRST AID MEASURES

In case of discomfort, remove to a ventilated area. If discomfort persists, consult a

physicien.

SKIN CONTACT: In case of burns with hot metal, rinse with plenty of cold water. If burn is severe, consult a

physician.

EYE CONTACT: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists,

continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort

continues, consult a physician.

INGESTION: Not applicable.

p. 2/5

Revision date: 2006-07-14

Alcan aluminum metal, 2XXX serie allova

## 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

Not a fire hazard unless in particle form. Suspensions of aluminum dust in air may pose a severe explosion hazard. A potential for explosion exists for a mixture of fine and coarse particles if at least 15% to 20% of the material is finer than 44 microns (325 mesh). Buffing and polishing generate finer material than grinding, sawing and cutting. In case of aluminum fires, use a class D dry-powder extinguisher. Do not use water or halogenated

extinguishing media.

**HAZARDOUS COMBUSTION PRODUCTS:** 

Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

Recycle if possible.

## 7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Secause of the risk of explosion, aluminum ingots and metal scrap should be thoroughly dried prior to remeiting. Use standard techniques to check metal temperature before handling. Hot aluminum does not present any warning color change. Exercise great caution, since the metal may be not. For more information on the handling and storage of aluminum, consult the following documents published by Aluminum Association, 900 19th St., N.W., Washington D.C., 20006:

- Guidelines for handling molten aluminum
- Recommendation for storage and handling of aluminum powders and paste
- Guidelines for handling Aluminum Fines generated during various aluminum fabricating operations

STORAGE CONDITIONS:

Not applicable

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing or polishing operatione, in order to eliminate explosion hazards. Maintain dust concentration in ventilation dusts below the lower explosive limit of 40 g/m³ (0.04 oz/ft³). See "National Fire Protection Association Codes": Code 65 "Processing and Finishing of Aluminum", Code 651 "Standard for the Machining and Finishing of Aluminum and the Production and Handling of Aluminum Powder" and code 77 "Static electricity".

Use an approved respirator designed for the hazard, where concentrations exceed exposure limits. The use of both primary and secondary protective equipment is necessary when handling molten metal. Refer to "Aluminum Association" guidelines.

#### For wetted coll of foil:

On not cut, transport or even approach any colligiving off a crackling sound or emitting steam vapour.

Once a coil of foil has been partially or completely wetted: keep the coll cool until the interior is completely dry, if such cooling is impractical, leave the coil in place and keep people at least 30 meters away from it for at least 72 hours. (See Alcan publication entitled "Potential Safety Hazards of immersing a coil of Aluminum Foil in water").

Revision date: 2006-07-14

Alcan aluminum metal, 2XXX serie alloys

## **EXPOSURE LIMITS:**

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	CEILING
Aluminum (total dust)	10 mg/m³	None	15 mg/m²	None
- Respirable dual	None	None	5 mg/m³	None
Copper (fume)	0.2 mg/m <sup>3</sup>	None	0.1 mg/m <sup>3</sup>	None
- dust	1.0 mg/m <sup>3</sup>	None	Emlam 0.4	Mone
Manganese (as Mn and compounds)	0.2 mg/m³	None	None	None
- Fume	None	None	None	5 mg/m²
Silicon (total dust)	10 mg/m <sup>3</sup>	None	15 mg/m³	None
- respirable dust	None	None	5 mg/m³	None

(ACG/H = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; OSHA = Occupational Safety and Health Administration (USA); PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; STEL = Short Term Exposure Limit; C = Ceiling value)

## 9. Physical and Chemical Properties

PH:	Not applicable	FLASHPOINT:	Not applicable
BOILING POINT:	Not applicable	AUTOIGNITION TEMPERATURE:	Not applicable
MELTING POINT:	482 - 660°C	LOWER FLANNABLE LIMIT:	Not applicable
VAPOUR PRESSURE:	Not applicable	HIGHER FLAMMABLE LIMIT:	Not applicable
VAPOUR DENSITY (AIR = 1):	Not applicable	EXPLOSIVE PROPERTIES:	Not applicable
EVAPORATION RATE:	Not applicable	NFPA FIRE CODE:	0
RELATIVE DENSITY (WATER = 1):	2.5 - 2.9	OXIDISING PROPERTIES:	Not applicable
WATER SOLUBILITY:	Not applicable	PARTITION COEFFICIENT	Not applicable
ODOUR THRESHOLD:	Not applicable	(N-OCTANOL/WATER):	

## 10. STABILITY AND REACTIVITY

STABLE (YES/NO):

Yes

CONDITIONS AND MATERIAL TO AVOID:

Molten aluminum may explode on contact with water. In the form of particles, may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminum particles on contact with copper, lead, or iron exides can react vigorously with release of heat if there is a source of ignition or intense heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** 

In the form of particles, aluminum reacts with water, strong basic solutions, strong acidic solutions, halogenated acide (eg.: hydrofluoric

ackl), producing flammable hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

INHALATION:

Yes

INGESTION:

Νφ

EYE CONTACT:

No

SKIN CONTACT:

Nο

SKIN ABSORPTION:

No

Revision date: 2006-07-14 Alcan aluminum metal, 2XXX serie allova

ACUTE EFFECTS:

INHALATION:

Solid eluminum does not present an inhalation hazard. Aluminum dusts generated during

use are considered nulsance particulates.

SKIN CONTACT:

Skin contact with hot metal can cause burns.

EYE CONTACT:

Aluminum dust can irritate the eyes (mechanical abrasion).

INGESTION:

Not applicable

CHRONIC EFFECTS:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT:

Not applicable

CARCINGGENICITY / MUTAGENICITY / REPRODUCTIVE

TOXICITY:

None of the ingredients present at concentrations equal to or greater than 0.1% are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

[IARC = International Agency for Research on Cancer; NTP = National Toxicology Program (USA); OSHA = Occupational Safety and Health Administration (USA);

#### SUPPLEMENTARY INFORMATION:

Aluminum furnes generated during welding or melting present low health risks. Welding or plasma arc cutting of aluminum alloys can generate ozone, nitric oxides and ultraviolet radiation. Ozone overexposure may result in mucous membrane irritation or pulmonary discomfort. UV radiation can cause skin erythema and welders flash. High concentrations of freshly formed oxide fumes of manganese may cause metal fume fever. High concentrations of manganese dust can affect the central nervous system (apathy, drowsiness, weakness and other symptoms resembling to Parkinson's disease).

## 12. ECOLOGICAL INFORMATION

Aluminum and its alloys under solid form, such as ingots or manufactured flams, do not present any hazard for emylronment because metals are not biologically available. Aluminum can be recycled.

## 13. DISPOSAL CONSIDERATIONS

Recycle. Aluminum in the form of particles may be reactive. Its hazardous cherecteristics, including fire and explosion. should be determined prior to disposal. Dispose of waste in accordance with federal, state, or local regulations.

## 14. Transport information

TDGR: not regulated ICFR 49: not regulated IMO: not regulated ICAO; not regulated IATA; not regulated

[TDBR = Transport of Dengerous Good Regs. (Canada). CFR 49 = Code of Federal Regs. (USA). IMO = Intermetional Maritime Organization. (CAO = International Civil Aviation Organization. (ATA = International Air Transport Association)

Revision date: 2008-07-14

Alcan aluminum metal, 2XXX serie alloys

## 15. REGULATORY INFORMATION

WHMIS CLASSIFICATION (CANADA):

D2B

Toxic material causing other toxic effects.

**EUROPEAN UNION CLASSIFICATION:** 

WARNING SYMBOL:

Not applicable

WARNING WORD:

Not applicable

RISK PHRASES:

Not applicable

SAFETY PHRASES:

Not applicable

## **USA REGULATIONS:**

This product contains trace amounts of lead (<0.01 %), a concentration which does not meet the disclosure requirements of the "Hazard Communication Standard" (HCS) of the United States or the Canadian "Workplace Hazardous Material information System" (WHMIS). Any process resulting in exposure to more than 0.5 mg/m<sup>3</sup> of metal dust per day may result in a daily dose of lead of over 0.5 ug/day, the dose above which the "Celifornia Safe Drinking Water and Toxic Enforcement Act" of 1986 requires notification. Refer to the appropriate regulation notification wording guidelines.

#### Section 313 Supplier Notification

This product does not contain any chemicals in concentrations subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (Title III of SARA) and of 40 CFR 372.

## 16. OTHER INFORMATION

## ABBREVIATIONS:

W/M/S = Working hezerdous material information system. CAS number = Chemical Abstracts Service Registry Number. LD<sub>20</sub> = Lothal dose 60%; LC<sub>20</sub> = Lethal concentration 50%; LCL<sub>0</sub> = Lowest published lethal concentration.EU = European Union.

 Although the information in this SDS was obtained from sources which we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied. \*

Prepared by Alcan Toxicology Service P.O. Box 1500, Jongulère (Quebec)

Phone: 418-699-2707

Fax: 418-099-2993

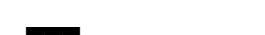
Canada, G7S 4L2

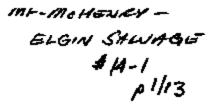
E-mail: servicetoxico@alcan.com

DATE OF THE PREVIOUS REVISION: 2003-07-14

REASON FOR REVISION:

Revision after three (3) years, according to WHMIS (Canada).





Certified Mail - P 913 809 870 Return Receipt Requested

August 15, 1995

printed 04/20/2010 1:10PM by epa4267 p. 25/223

Ms. Debbis F. Regel
Emergency Support Section
U.S. Environmental Protection Agency (HSE - 5J)
77 West Jackson Blvd.
Chicago, IL 60604

Re: Elgin Salvage & Supply Site

Dear Ms. Regel:

The following submittal is in response to USEPA's request for information concerning the Elgin Salvage & Supply Site. The request, dated January 24, 1995 was not received at Modine's corporate offices until July 19,1995 and then only when sent to us by Mr. Mark Chutkow for the site's PRPs.

The response that follow correspond to the numbered items in the "Requests" portion of USEPA's correspondence. Further correspondence should be directed to me at the below address or by calling me at 414/636-1412.

- The following persons were consulted in the preparation of the answers to the USEPA request for information:
  - Mr. David W. Ace Production Control Manager Modine Manufacturing Company Ringwood Road McHenry., IL 60051
  - ii) Mr. Randall T. Davidson
    Automotive & Truck Division Controller
    Modine Manufacturing Company
    1500 DeKoven Avenue
    Racine, WI 53403
  - iii) Ms. Julie M. Nitz
    Secretary
    Modine Manufacturing Company
    1500 DeKoven Avenue
    Racine, WI 53403
  - iv) Mr. Donald G. Lautz
    Senior Counsel
    Modine Manufacturing Company
    1500 DeKoven Avenue
    Racine, WI 53403

# /4-1 2/<sub>13</sub>

- v) Mr. Thomas E. Meitner
  Senior Environmental Engineer
  Modine Manufacturing Company
  1500 DeKoven Avenue
  Racine, WI 53403
- 2. Person that may be able to provide a more detailed response to the USEPA's Information Request:
  - Ms. Fran E. Garland
     Production Control Assistant
     Modine Manufacturing Company
     Ringwood Road
     McHenry., IL 60051
- 3. Persons who may have arranged for disposal or treatment of materials at the Elgin Salvage & Supply site:
  - Mr. Dennis R. Bates
     Controller
     Modine Manufacturing Company
     1502 South Country Club Drive
     Jefferson City, MO 65109
  - ii) Randall T. Davidson (address listed above)
  - iii) Mr. Daniel R. Sneller
    Superintendent
    Modine Manufacturing Company
    Ringwood Road
    McHenry., IL 60051
  - iv) Mr. David W. Ace (address listed above)
  - v) Ms. Fran E. Garland (address listed above)
- 3a. Persons with whom arrangements were made for shipment to Elgin Salvage & Supply:
  - S.D. McNeil (position and address unknown)
  - N. Lucarz (position and address unknown)
  - iii) J. Schmitt (position and address unknown)
  - Iv) J.C. Kerfer (correct spelling?) (position and address unknown)
  - Randy (last name unknown) (position and address unknown)
  - vi) T. Myers (position and address unknown)
  - vii) Albert (full name unknown) (position and address unknown)
  - viii) Mike (full name unknown)
  - ix) Gordon Roth, Vice President Elgin Salvage & Supply

Persons identified in (i) through (viii) in this section are believed to be truck drivers.

3b. See the attached tables for the dates in which arrangements were made for shipment to Elgin Salvage & Supply. Many of these dates were determined using accounting records which often list an "entry" date. That date corresponds to the date when the item was entered into Modine Manufacturing Company's financial record and is not necessarily the actual date of shipment to Elgin Salvage & Supply. The tables are grouped by year. There is no information for calendar year 1982.

Modine Manufacturing Company 1500 DeKoven Avenue Racine, Wisconsin 53403 - 2552

- 3c. See the attached tables for the nature of the material shipped to Elgin Salvage & Supply and the process that generated that material. Blank spaces in the tables indicate that Modine Manufacturing records and/or information obtained from the ESS PRP Removal Action Committee was not available for that particular shipment. As indicated in the tables, none of the shipments to Elgin Salvage & Supply contained Lead, Cadmium, Dioxins, Furans or Poly Chlorinated Biphenols (PCBs).
- 3d. See the attached tables for the weight of the material shipped to Elgin Salvage & Supply. Blank spaces in the tables indicate that Modine Manufacturing records and/or information obtained from the ESS PRP Removal Action Committee was not available for that particular shipment. A total quantity of material shipped to Elgin Salvage & Supply was not calculated due to the very limited weight data that are available.
- See the persons listed under response #3.
- Modine is not aware of any acts or omissions of any persons that may have caused a release or threat of a release
  of hazardous substances, pollutants or contaminants.

I, Thomas E. Meitner, Senior Environmental Engineer of Modine Manufacturing Company do hereby certify that a diligent record search has been completed and that there has been a diligent interviewing process with employees who may have knowledge of the operations, hazardous substance use, storage, treatment, releases, spills, or handling practices of Modine between 1960 and the present.

Thomas E. Meitner

STATE OF WISCONSIN }

iss.

COUNTY OF RACINE 1

Sworn to before me this

day of

1995

Notary Public

E CONTRACTO TO THE

cc: Mr. Mark Churkow, ESS PRP Removal Action Committee

rem\ess\_epa.doc

## <u> 1981</u>

# Modine Manufacturing Company

Eigin Salvage & Supply Summary

Date Weight (i) Nature of Material (ii) (item #3.b) (item #3.d) (item #3.e)

6/29/81	16,790	Scrap Aluminum
7/24/81		Contaminated Aluminum
8/5/81	•	Contaminated Aluminum
8/5/81	7,134	Scrap Steel
8/5/81	5,170	Scrap Steel
8/14/81	8,500	Scrap Aluminum
8/14/81	6,106	Contaminated Aluminum
8/26/81	5,020	Contaminated Aluminum
8/26/B1	5,200	Contaminated Aluminum
9/18/81	7,580	Scrap Aluminum
9/25/81	30,080	Scrap Steel
9/28/81	6,770	Scrap Aluminum
9/28/81	5,250	Scrap Steel
10/6/81	4,010	Scrap Steel
10/7/81	5,730	Contaminated Aluminum
10/13/81		Scrap Steel
10/19/81	5,595	Contaminated Aluminum
10/26/81	4,760	Scrap Steel
10/26/81	8,431	Scrap Steel
10/26/81	6,150	
10/26/81	7,184	Scrap Aluminum
10/26/81	6,313	Contaminated Aluminum
11/6/81	4,840	Scrap Steel
11/10/81	5,030	Scrap Steel
11/11/81	5,333	Contaminated Aluminum
12/7/81	5,702	Contaminated Aluminum
12/14/81	14,710	Scrap Aluminum
12/18/81	5,326	Scrap Steel
12/29/81	6,469	
12/29/81	5,010	

<sup>(</sup>f) Weights shown are from records received from the ESS PRP Removal Action Committee. Modine has no record of weights for these shipments.

<sup>(</sup>ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

# Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date Weight (i) Nature of Material (ii) (item #3.b) (item #3.d) (item #3.c)

1/7/82	5,980	Scrap Ahminum
1/7/82	5,010	Contaminated Aluminum
1/19/82		
1/19/82	6,200	Contaminated Aluminum
1/20/82	7,400	

(I) Weights shown are from records received from the ESS PRP Removal Action Committee. Modine has no record of weights for these shipments.

(ii) All material shipped to ESS was acrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same acrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

# Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date	Weight (i)	Nature of Material	(II)
(item #3.b)	(item #3.d)	(kem #3.c)	

12/18/84	
12/18/84	
12/18/84	

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

# **Modine Manufacturing Company**

Eigin Salvage & Supply Summary

		_
Date (item #3.b)	,	Nature of Material (ii) (item #3.c)
1/8/85	<del></del>	
1/21/85		
1/21/85		-
1/25/85		
2/8/85		-
2/21/85		
2/21/85		
2/25/85		
3/29/85		
3/29/85		
4/11/85	•	
5/3/85		
5/14/85		
6/6/85		
6/6/85		
6/6/85		
6/6/85		
6/26/85		
12/11/85		
12/11/85		
12/11/85		
12/23/85		
12/23/85		

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled atuminum units.

# Modine Manufacturing Company Elgin Salvage & Supply Summary

Date Weight (i) Nature of Material (ii) (item #3.b) (item #3.d) (item #3.c)

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10/26/86		
11/6/86		
11/17/86		
12/16/86		
12/16/86		
12/16/86		
12/16/86		

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmlum, dloxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

8/15/95 ESS.XLS T.E. Meitner

Nature of Material (ii)

Date

Weight (i)

# Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date (item #3.b)	Weight (i) (item #3.d)	Nature of Material (ii) (item #3.e)
1/21/87		
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L/21/87		
1/23/87		
1/30/87		
2/24/87		
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9/10/87		
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9/18/87		
9/18/87		

(item #3.b)	(item #3.d)	(item #3.c)
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10/26/87		
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11/20/87		
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11/25/87		
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11/25/87		
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12/11/87		
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12/23/87		

(i) Weights shown are from Modine Manufacturing Company records. Modine has no records of weights for other shipments.

(ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

# Modine Manufacturing Company

Eigla Salrage & Supply Summary

Dute (Nem #3.b)	Weight (f) (item #3.d)	Nature of Material (4) (item 43.c)	Duin (Hem #3.b)	Welgle (f) (hem #3.d)	Nature of Material (ii) (Nem #3.c)
1/5/88		Ι.	3/13/11		<del></del>
1/6/88		<del></del>	5/13/88		
1/20/48		<b>i</b>	5/19/88		
1/20/48			5/23/88		<del>-</del>
1/20/88		•	5/23/88		<del>                                     </del>
1/20/82			5/26/88	•	
1/20/48	-	l	6/1/88		
1/26/88		i	6/16/88		<u> </u>
1/26/18			6/16/88		
1/26/88			6/20/88		
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2/1/38			6/11/88		
2/1/68			6/25/98		
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2/9/88			7/5/88		
2/12/48			. 7/7/88		
2/12/84			7/8/88		
1/12/11			7/11/88		
1/18/68			7/14/66		
2/24/68			7/19/88		
2/24/68			7/21/88		
2/25/68			7/26/88		
2/26/88	14120	Scrap Steel	8/10/88		
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3/4/68			\$/25/64		1.
3/8/88			1/26/H		
3/8/88			4/26/68		
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3/30/88			10/31/88		
4/7/88			10/31/88		
4/7/01			10/31/64		
4/13/88			13/37/88		
4/22/68			11/17/66		
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4/22/88			12/16/44		Semp Steel
4/26/88			12/16/88 12/16/88		Contaminated Aluminum
5/12/88			12/12/68	84,54	Semp Aluminum
3/11/88					
5/11/88			†		

(i) Weights shown are from Modice Masufacturing Company records. Modice has no records of weights for other shipments.

(II) All material shipped to ESS was scrop material (seed or obscious) that contained no had, coducious, dioxina, furcas or PCD's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are fixed. The process generating the scrap resterial was metal forming in the production of abusinum evaporators and coolensers or from the steel banding of assembled obscirum units.

Nature of Material (ii)

# Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date (item #3.b)	_	Nature of Material (ii) (item #3.c)	Date (item #3.b
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Weight (1)

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

# Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date (item #3.b)	Weight (i) (item #3.d)	Nature of Material (ii) (item #3.c)	Date (item #3.b)
1/15/90			7/10/90
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2/14/90		-	8/3/90
2/14/90			8/13/90
2/20/90			8/24/90
2/26/90			9/7/90
3/13/90			9/7/90
3/13/90			9/13/90
3/29/90			9/13/90
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3/30/90			9/13/90
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4/9/90			9/17/90
4/12/90			10/5/90
4/19/90			10/5/90
4/19/90			10/24/90
5/14/90			10/24/90
5/14/90			10/24/90
5/14/90			11/2/90
6/8/90			11/2/90
6/8/90			11/26/90
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(item #3.b)	(item #3.d)	(item #3.e)
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Weight (i)

Nature of Material (II)

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furars or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

## Modine Manufacturing Company

Elgin Salvage & Supply Summary

Date (item #3.b)	Weight (i) (item #3.d)	Nature of Material (ii) (item #3.c)
1/8/91		
1/8/91		
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1/25/91		
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8/12/91		

- (i) Modine has no record of weights for these shipments.
- (ii) All material shipped to ESS was scrap material (steel or aluminum) that contained no lead, cadmium, dioxins, furans or PCB's. Shipments having no known "Nature of Material" are assumed to be the same scrap materials as those that are listed. The process generating the scrap material was metal forming in the production of aluminum evaporators and condensers or from the steel banding of assembled aluminum units.

Ameniment 116-1

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AMERICAN MANUFACTURIN COMPANY
LIBRING OF SCRAP SHIPLIENTS to CHENETCO

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Attachment #16-1

MODINE MANUFACTURIN COMPANY LISTING OF SCRAP SHIPMENTS to CH

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MODINE MANAFACTURIN COMPANY LISTING OF SCRAP SHIPMENTS to Chemetico

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MODINE MANUFACTURIN COMPANY LISTING OF SCRAP SHIPMENTS to CHEMETCO

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16400 S. Lathrop • Harvey, IL 60426 800/544-4345 • 708/339-5700 • 708/339-0219 (fax)

July 31, 2000

Modine Manufacturing 1500 DeKoven Ave. Racine, WI. 53403 Attn: Larry Bastian

Deer Larry,

The following formulas will govern pricing for the scrap at the Modine plant in Jefferson City. We will use Spot Comex close day of pick up and the AMM day of pick up to calculate prices:

<ol> <li>Alloy 143 copper</li> </ol>	Comex close m	imis 8 cents per pound
2) Alloy 260 clean brass	0.00-75.0	Comex times \$5%
_,	75.05-80.0	Comex times 82%
	80.05-85.0	Comex times 79%
	85.05-90.0	Comex times 76%
	90.05 plus	Comex times 73%
3) Radiators (contam. Cores)	AMM Brass In price minus 2 c	got Makers' Scrap Midwest Radiator ents per pound
Modine tubes (contam.     Tanks &headers		got Makers' Scrap Midwest Radistor cents per pound
5) 1100, 3003 Aluminum A) Clean Aluminum	Aluminum Miz	etals Secondary Smelter Scrap red Low Copper Clips low side us 2 cents per pound
B) Contam. Cores	Aluminum Mix	etals Secondary Smelter Scrap ted Low Copper Clips low alde us 7 cents per pound
6) Aluminum turnings	AMM Seconda Aluminum turn 9 cents	ry Smekers' Aluminum Scrap pings, clean and dry price minus

These prices are quoted FOB your plant with payment for all scrap 50 days after pick up.

Sincerely

Jačk Henry



16400 S. Lothrop • Harvey, IL 60426 800/544-4345 • 708/339-5700 • 708/339-0219 (fcx)

July 31, 2000

Modine Manufacturing 1500 DeKoven Ave. Racine, WI. 53403 Attn: Larry Bastian

Dear Larry,

The following formulas will govern pricing for the scrap at the Modine plant in Joplin. We will use Spot Comex close day of pick up and the AMM day of pick up to calculate prices:

1) Alloy 143 copper	Comex close minus 9.5 cents per pound
2) Alloy 260 clean brass	0.00-75.0 Comex times 85% mims 2.5 cents 75.05-80.0 Comex times 82% minus 2.5 cents 80.05-85.0 Comex times 79% minus 2.5 cents Comex times 76% mims 2.5 cents Comex times 73% minus 2.5 cents
3) Radiators (contam. Cores)	AMM Brass ingot Makers' Scrap Midwest Radiator price minus 3.5 cents per pound
<ol> <li>Modine tubes (contam. Tanks &amp; headers</li> </ol>	AMM Brass Ingot Makers' Scrap Midwest Radiator price minus 11.5 cents per pound
5) 1100, 3003 Alominum A) Cican Aluminum	AMM Scrap Metals Secondary Smelter Scrap Aluminum Mixed Low Copper Clips low side Of pricing minus 3.5 cents per pound
B) Contam. Cores	AMM Scrap Metals Secondary Smelter Scrap Aluminum Mixed Low Copper Clips low side Of pricing minus 8.5 cents per pound
6) Aluminum ហេកាម៉ានូវ -	AMM Secondary Smelters' Aluminum Scrap Aluminum turnings, clean and dry price minus 10.5 cents

These prices are quoted FOB your plant with payment for all scrap 30 days after pick up.

Sincerely,

Ack Henry



16400 S. Lathrop • Harvey, 1L 60426 800/544-4345 • 708/339-5700 • 708/339-0219 (fox)

க்ஷ் 31, 2000

Modine Manufacturing 1500 DeKoven Ave. Racine, WI. 53403 Attn: Larry Bastian

Dear Larry,

The following formulas will govern pricing for the scrap at the Modine plant in Trenton. We will use Spot Comex close day of pick up and the AMM day of pick up to calculate prices:

l) Alloy 143 copper	Comex close m	inus 9 cents per pound
2) Ailoy 260 clean brass	0.00-75.0 75.05-80.0 80.05-85.0 85.05-90.0 90.05 plus	Comex times 85% minus 2 cents Comex times 82% minus 2 cents Comex times 79% minus 2 cents Comex times 76% minus 2 cents Comex times 73% minus 2 cents
3) Radiators (contam. Cores)	AMM Brass In price minus 3 c	got Makers' Scrap Midwest Radiator ents per pound
<ol> <li>Modine tubes (contam. Taŋks &amp;headers</li> </ol>		got Makers' Scrap Midwest Radiator cents per pound
5) 1100, 3003 Ahminum A) Clean Aluminum	Aluminum Mix	letals Secondary Smelter Screp and Low Copper Clips low side as 3 cents per pound
B) Contam. Cores	Aluminum Mix	letals Secondary Smelter Scrap red Low Copper Clips low side us 8 cents per pound
6) Aluminum turnings	AMM Seconda Aluminum turi 10 cents	ary Smelters' Aluminum Scrap nings, clean and dry price minus

These prices are quoted FOB your plant with payment for all scrap 30 days after pick up.

Sisserely

Ck Hanry



16400 S. Lattrop . Harvey, IL 60426 800/544-4345 • 708/359-5700 • 708/339-0219 (fox)

September 19, 2000

Modifie Manufacturing 1500 DcKoven Ave. Racine, Wt 53401 Atin: Larry Bastian

Dest Larry,

Chemeteo offers the following prices on the ferrous serup at your Jefferson City plant:

Contaminated cares

2.5 cents per pound

Misc. scrap

.50 certis per pound

These prices are quoted FOR Jefferson City with two trailers apound to store the scrap. After visiting the Jeff City plant. Ryan Hicks tinnes we can eliminate the need for three some trailers on sice, reducing your needs to two trailers and two ramps. For further information or prices, plause contact the at (800) 544-4345. or Ryon at (800) 444-5564 (ext. 399).

Chemeteo Kym Hicks 200-444-5564 Ext. 377



May 7, 1999

Jack Henry Chemetoo 16400 S. Lathrop Harvey, IL 60426

RE: Scrap Sale Agreement 5/1/99-3/31/02

Dear Jack,

Modine Manufacturing Company 1500 DeKoven Avenue Racine, Wisconsin 53403-2562 Tel. 414.636.1200 Fex. 414.636.1424

Based on your quotation letters of May 4, 1999, this letter shall serve to offer Modine's intent to contract with Chemetco for the sale of our non-ferrous scrap products for the time frame listed above. This agreement covers scrap sale at our Modine plant locations in Trenton, MO, Joplin, MO, Jefferson City, MO and Emporia, KS. The contract may be terminated by either party 90 days after receipt of a written letter expressing this desire.

Please continue to furnish the settlement tickets to Trudy Rozzoni at our Racine corporate office. Trudy will audit the tickets for accuracy and forward them to the plants.

Thank you for your assistance in negotiating this contract. I look forward to our continued relationship.

Yours truly,

Larry R. Bastian Senior Corporate Buyer

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## Bax, Charles A - JEFFMO

Bax, Charles A - JEFFMO [MODINE/JEFFMO/chax] From:

Wednesday, March 21, 2001 12:40 PM Sent:

Rock, Christopher A - JEFFMO To: RE: Chemetco Vs Branch Metals Subject:

Chris,

Dennis Bates said less than a penny. As for how we load them on the trailer, currently they are just dumped on out of a dumpster.

## C.Bax

Rock, Christopher A - JEFFMO From:

Wednesday, March 21, 2001 10:24 AM Sent.

Box, Charles A - JEFFMO To:

RE: Chemetoo Vs Bronch Metols Subject

Charlie,

See Below in blue.

Thanks

Chris

Bask Charles A - JEFFMO From:

Monday, March 19, 2001 12:47 PM Sent:

Bates, Dennis R - JEFFMO; Ledin, Maurice K - JEFFMO; Rook, Christopher A - JEFFMO TO:

Chemetoo Vs Branch Metals Sublect:

## Gentlemen:

Last year we were talking about having Chemetco haul our Tin Plate, Banding, Scrap Steel, and Scrap cores. Branch Metals is currently hauling these items and as I was told that there was nothing we could do until this contract was due (April 2001). I have put together a liet of advantages and disadvantages for you to compare.

## Advantages:

- Already use them for copper, brass materials.
- Traffers are in much better shape.
- Offering 2.5 cents per pound for contaminated cores and .50 cents per pound for Misc. scrap. What were we getting before?
- Branch Metals sets the contaminated cores to Chemetco, cut out the middle man.
- Free up more room with one less trailer and ramp.

## Disadvantage:

- Will have to stack and band scrap cores form each dept. How do we do it now?
- We currently have three trailers, the lirst one is for copper/torass etc. that goes to Chemetco, the second trailer is for scrap tin plate/banding/steel that goes to Branch Metals, and the third trailer is for scrap cores/radiators that Branch Metats sells to Chemetco. Chemetco is also talking with Racine on hauling our solder dross, it would be very nice if we could get down to one dealer handling all scrap.

If you can think of any other good or bad points let me know and if not I see no reason why not to switch to Chemetco.

Cometeo Convission

Would Like to Combine Ferrous + Non-Frences material with one company.

Comster is othering 2.5 cent por poul on look coin

Time Plate truster issues - Will Stay the same as cultitly.

Lore Trailen Issues

- SMR corès will have to be stacked & Bandad
- Fle love will have to be on skids or Woods. Neile
- IMAM/ANIOCS Will bear to be banded
- Use scrap pallets for these

Briss / loppin / lord . loppin + Briss Freder -will be stowed in with the love's



16400 S. Lathrop • Harvey, II. 60426 800/544-4345 • 708/339-5700 • 708/339-0219 (fax)

July 31, 2000

Modine Manufacturing 1500 DeKoven Ave. Racine, WI. 53403 Attn: Larry Bastian

Dear Lamy,

The following formulas will govern pricing for the scrap at the Modine plant in Emporia. We will use Spot Comex close day of pick up and the AMM day of pick up to calculate prices:

1) Alloy 143 copper	Comex close r	ninus 9.5 cents per pound
2) Alloy 260 clean brass	0.00-75.0	Comex times 85% minus 2.5 cents
	75.05-80.0	Comex times 82% minus 2.5 cents
	80.05-85.0	Comex times 79% minus 2.5 cents
	85.05-90.0	Comex times 76% minus 2.5 cents
	90.05 plus	Comex times 73% minus 2.5 cents
3) Radiators (contem. Cores)		ngot Makers' Scrap Midwest Radiator 5 cents per pound
<ol> <li>Modine tubes (contain. Tanks &amp;headers</li> </ol>		ngot Makers' Scrap Midwest Radiator 1.5 cents per pound
5) 1100, 3003 Aluminum		
A) Clean Aluminum		Actals Secondary Smelter Scrap
•		ixed Low Copper Clips low side
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B) Contam. Cores	AMM Scrap I	Metals Secondary Strieller Scrap
•	Aluminum M:	ixed Low Copper Clips law side
	Of pricing min	mus 8.5 cents per pound
6) Aluminum tumings	AMM Second	ary Smelters' Aluminum Scrap
-, <del>-</del>	Aluminum tu	mings, clean and dry price minus
	10.5 cents	<u>-</u> -

These prices are quoted FOB your plant with payment for all scrap 30 days after pick up.

Sinceptly

fack Henry

Attachment #18-11 sheet 1 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPMENTS to CHEMETCO

			Allement	S	Сорры	Ĕ	Iron	2
Scrap Desortetion	Total Posenty shipped by Modera th	Percent by Wedgit	Pounds	Percent by Weight	Pounds	Percent by Weight	Pounds	Рекова ву Мефк
Chean Aluminum	968,168	100	854 866	0		B		٥
Assambled Alumbum Radiators <sup>22</sup>	480,981	8		0	,	٥		D
Clear Brass	1,638,809	0		Q	70 1,167,105	°		•
Clean Copper	247,779	-6	•	001	247,778	0		Ö
Brane Containing Solder <sup>64</sup>	126,618	a		28	]	a		22
Suidened Copper-Bissas Redistors (*)	080'824	D		58.4	n	8		9.44
Soldered fürze. Tenka/Newter Assemblies (*)	7,063	0		33	4,786	Ġ		
Soldened Brass Radiator Tubes <sup>M</sup>	1,224,342	Đ	•	95	3	ņ		8
Copper-Brans Radiotors Including Steel (*)	12,061	0		94		12	1,447	
Sticos Brass Weld Wite	286	0	,	20	610	O		
Total Modine (pounds)	5,353,655		1,465,449		2,487,544	<u> </u>	1,467	

491.B43

Percent by weight

ğ

ž

Ä

SUMMARY: 1997 - 2001

30,384 30,384 233,367 1,075 203,642 ģ ğ 1,058,659

25,304 88,289 Š 244,888 ¥

37.16

# **F**оопоте

General: relative percentages of materials within each sorsp cetegory are astimates.

- (f) Modine facilities Include: Jefferson City, MO, Jopfin, MO, and Tremon MO
- (2) "Assembled Aluminum Radietoro" refers to the Backing List notedion "Contaminated Aluminum", this hobides sluminum scrap containing brazing flux KAIF<sub>4</sub>.
  - Brees Containing Solder, refers to the Pecking List notation "Commingted Brass".
- (4) Soldered Copper-Brass Radiators" refers to the Pecking List notation "Contaminated Copper-Brass Radiators", (6) "Soblered Brass Tenfol-leader Assemblies" rafers to the Pecking List notation "Conteminated TenkarAssers"
- (6) "Soldered Brass Radiator Tubes" refers to the Packing List notation "Confaminated Brass Tube Parts".
- - (7) "Copper-Brass natiations including Steet" refers to the Pracking List notation "Contaminated Conse w/ FE".

sheet Condensed Modine Shipments - Chemeito

Attachment #18-11 sheet 2 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPMENTS to CHEMETCO

2442

1997

Scrap Description	Total Pounds dripped by Modine (1)	Percent by Weight	Pounds (	Percent by Weight	Pounds	Percei Weig
Chan Alumbrum	10,844	100	50,844	٩	·	
Assembled Aluminum Radiators <sup>(2)</sup>	116,283	8	-	c		
Clean Brage	112,832	•		, R	78,062	
Clean Copper	23612	0	•	α).	2895	
Bress Containing Solder Pa	-	0		Ħ		
Soidened Copper-Brass Raddators M	47,086	•	,	<b>1</b> 3.4	25,149	
Soldered Brass Tarks/Header Assembles IP	4,184				2,546	
Soldwed Brase Redistor Tubes M	56,92	•		36	31,326	
Copper-Brave Radiators Including Stock <sup>(7)</sup>	•	•		9		
Sticon Brass Weld Win	•	۰	,	- TRB	•	
Total Modine (pounds)	410,257		164,874		162,363	}

	Alum	Auminum	Š	Copper	Iron	£	P##	2	ZINC	9
	Percent by Weight	Pounds	Percent by Weight	Pounds	Percent by Weight	Pourds	Percent by Wedgit	Pounds	Pencent by Wedgirt	Pounds
	100	50,844	å		0		0		0	
	84	114,130	0	•	0	•	0	•	0	
	٥	•	. R	78,062	0	•	9		8	99,680
-	. 0	•	₿	23,962	D	•	D		O	
			8	•	D	٠	OZ .		75	
	•	•	E3.4	25,149	0	•	44.0 44.0	4,446	87.10	17,601
	. 0	•	<b>**</b>	2,846	D		7	167	28	1,172
	•	•	88	31,326	0	•	202	11,187	7	13,425
	۰	•	-\$	•	12	•	•		38	
	ů	•	96	,	O	•	0		25	
		164,874		102,353		•		18,801		65,877

# Footpolini

General: reletive percentages of metanists within each scrap category are estimates.

- (1) Modine facilities include: Jefferson City, MO, Joplin, MO, and Transon MO
- (2) "Assembled Ahminum Radistons" refers to the Backing List notetion "Contaminated Ahminum", this Inductos sharmon screep containing brazing Bux KAFs.
- Bress Containing Solder" refers to the Packing List notation "Contaminated Bress".
- (4) Soldered Copper-Bassa Radiatorn\* refers to the Packing List notation "Contaminated Copper-Brass Radiators".
- (5) "Soldened Brass Tank/Header Amembliss" rafers to the Packing List notation "Conteminated Tanks/Headers."
  - (6) "Soldered Brass Radiator Tubes" refers to the Proking List notation "Contembrated Brass Tube Parts".
- (7) "Copper-Brase radiators Industry Steel refers to the Packing Lbt notation "Companiested Cones w/ FE"

shed: 1987 Modine Shipmento - Criemetoo

Attachment #14-11 Obset 3 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPMENTS to CHEMETCO

¥-784-08

						1998	38				
			Aunhun	.eddoo	. P. C.	UBA	_ u	PEPT	,	347Z	١
Scrip Description	Total Pounds shipped by Modine	Percent by .	Paunds	Percent by Weight	Pounds	Parcent by Weight	Powerds	Percent by Weight	Pounds	Percent by Weight	Pounds
Cean Allembran	216,425	1001	218,425	a	•	-0		0		•	
Assembled Muminum Rediators <sup>02</sup>	12,600	8		ō		0		٥		•	
Clean Brass	377,974			2	284,582	•		0		8	113,392
Clean Capper	56,764	0	-	001	A07,282	·		0		8	
State Containing Sciolar <sup>19</sup>		0	•	*		0		R		72	
Soldered Cappac-Broo Radiators <sup>64</sup>	142,683	ū	•	68.4	78,193		,	77'5	13,489	37.16	53,024
Soldered Brase Tanks/Header Assemblies <sup>(3)</sup>	,	-0	•	99	•			. *		**	
Soldered Brass Redistor Tabes®	379,720	a		28	212,643	8	'	R	14,57	র	91,139
Copper-Breau Reflects Including Steel (A	1484			45	•	12	17.	90	118	98	61B
Silicon Bress Weld Wire	•	e 		99		٥	,	0		8	
Total Modine (pounds)	1,238,640		278,388	<u> </u>	612, <b>38</b> 0	<u> </u>	178		269'69		268,086

# Footnotes

General: relative percentages of materials within each ecrep category are estimates.

- (4) Modine facilities include: Jefferson City, MO, Joplin, MO, and Trenton MO
- (2) "Assembled Atuminum Radistors" refers to the Backing List notation "Conteminated Atuminum", this includes atuminum acrap containing trazing flux KAIFs.
- (3) "Brass Containing Sotter" raters to the Packing List notation "Contaminated Brass".
- (4) Soldened Copper-Brans Radiators" refers to the Packing List notation "Contaminated Copper-Brans Rediators".

(5) "Soldered Brase Tankfrieader Assembles" refers to the Packing List notation "Contaminated Tanks/Houders"

- (6) "Sordered Brass Redigitor Tubes" refers to the Paciding List notation "Contaminated Brass Tube Parts".
- (7) "Copper-Brass radiations including Steel" raters to the Paciding List notation "Contaminated Consetts" FET.

street: 1696 Moding Shipmenta - Chemetoo

Attachment #18-11 sheet 4 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPMENTS to CHEMETCO

1999

Scrap Description	Total Pounds Shipped by Mocking All	Percent by Weight	Pounds
Clean Allminum	281,297	å	261,20
Areembled Auminum Radiators Pl	67,200	8	48,537
Clean Brass	912,818	В	
Clean Copper	78,435	0	
Bosse Containing Solder <sup>60</sup>	128,618	0	
Soldered Copper-Brass Redistors <sup>40</sup>	134,882	D	
Schiened Bress Tanks/Neader Assemblice <sup>De</sup>	2,869	D	
Sottlered Brass Radiator Tathes <sup>40</sup>	100/208	•	
Copper-Brass Radiators Including State <sup>(7)</sup>	1386	0	,
Silton Brass Weld With	•	-6	
Total Modifie (pounds)	1,610,666		327,884

Almerica	Ę	Copper	ģ	Iren	£	2	Lond	Zinc	ğ
	Pounds	Percent by Weight	Pounds	Percent by Weight	Pounds	Percent by Wisipia	Pounds	Percent by Wedgid	Pounts
튑	251,397	8		0	,	e ::		0	
8	46,537	_		•	•	8	-	0	•
-	•	P	371,863	0		6	•	Œ	169,369
0	•	100	75,435	ti		Þ	•	0	•
0	•	99	70,850	0		8	10E-52	rz .	30,394
	•	19.4	72,027	D.		9.44	12.733	37.16	50,122
-	•	89	1,961	٥		7	115	ĸ	803
	,	99	171,980	D.		02	7FP'18	3	78,887
-	•	94	1,970	12	922	¥	260	96	1,639
ъ		•	,	0	,	0		82	
	327,684		785,064		122		96,817		315,881
ı									

General: reletive percentages of materials within each sorap category are estimates.

- (1) Modine facilities include: Jefferson Chy, MO, Jopin, MO, and Tranton MO
- (2) "Assembled Atunhum Redistors" refers to the Backing List notation "Contaminated Aluminum", the includes aluminum screep containing breading flux KALF<sub>4</sub>.
  - (3) Bress Containing Solder" refers to the Pedding List notation "Conteminated Brasss".
- (4) Soldered Copper-Brass Radiators" refers to the Pecking List rotation "Contaminated Copper-Brass Radiators".
  - (5) "Soldered Brass Tank/Header Assemblies" rations to the Peopling List notation "Contaminated Tenlas/Neaders"
- (6) "Soldered Brass Radiator Tubes" refers to the Packing List notation "Contaminated Brass Tube Parts".
- (7) "Copper-Brace redistors inducing Steal" refers to the Peolóng List notation "Confaminated Cores w FE".

aheet: 1996 Moding Shipmento - Cremetoo

Attachment #18-11 sheet 5 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPNENTS to CHEMETCO

2000

	Pounk	95										
•	Persert by	100	8	0	0	0	D	0	0	0	0	
	Total Pounds shipped by Modine (0	190.006	\$200'86	391,513	259,025	,	145,289		204,178	3/0/5		Ī
	Borap Description	Ober Aluminum	Accombined Aumenum Redistors <sup>50</sup>	Clean Brass	Clean Oxpper	Breas Cortaining Solder <sup>FO</sup>	Soldered Copper-Brass Radiators <sup>40</sup>	Sobiered Brass Tenigotteptor Assemblies P	Soldered Bracs Redistor Tubes <sup>(1)</sup>	Copper-Brane Recisions including Steel <sup>(7)</sup>	Secon Brass Weld Wire	

4	Abenimen:	å	Саррег		<b>.</b>	3	Lead	2 <u>m</u> c	¥
Percent by Walgit	Pounds	Percent by Weight	Pounts	Percent by Weight	Pounds	Percent by Weight	Pounda	Percent by Weight	Pounds
100	190,005	0		a	,	a			'
3	94,063	0	٠	7		•		-	'
0		2	274,059	Đ		0		28	117,434
0	•	188	60,953	D	,	В	,	•	•
0	•	88		0		20		18	,
0	•	4.63	77,574	Þ		9.44	13,713	37.18	13,982
0	•	8		·				33	,
a	•	25	164,739	0		8	56,435	PZ	70,602
0		. 34	1,787	12	477	•	318	BR .	1,280
0	,	8	_	0		0		2	'
	235,088		669,112	<u></u>	417		12,800		243,420
	1								

## Feetmoter

General: relative percentages of meterials within each sonep category are estimates.

1,171,111

Total Modine (pounts)

- (1) Modine featilities include: Jefferson City, MO, Joplin, MO, and Transon MO
- (2) "Assembled Atunium Redistors" raters to the Bedring List moletion "Contaminated Atunium", this includes atunium screp containing brazing flux KAIFs.
  - (8) 'Brees Containing Solder' refers to the Packing List notation "Contaminated Brass".
- (4) Soldered Compan-Brass Registors refers to the Pecking List notation "Companitated Copper-Brass Radiators".
- (6) "Sobtered Bress Redurlor Tubes" refers to the Packing List notation "Contaminated Bress Tube Parts".

(5) "Soldered Brass TentoNeeder Assemblies" rafers to the Paciding List notation "Contaminated Tanks/Meeders"

(7) "Copper-Brass radiators including Steal" raters to the Pocking List notation "Contaminated Cores wil FE.

sheet 2000 Modine Shipmenss - Chemerco

Attachment #18-11 Sheet 6 of 6

# MODINE MANUFACTURING COMPANY SUMMARY of SCRAP SHIPMENTS to CHEMETCO

200

	, A	
Script Description	shipped by Modine	Percent by Weight
Clean Aluminum	279,897	100
Assembled Auminum Redelere <sup>48</sup>	128,556	8
Chan Brans	225,171	Φ
Chan Copper	36,440	Ď
Brags Continuing Solder <sup>63</sup>	,	Đ
Soldered Copper-Bress Redetors **	150,134	Ģ
Subbrod Brass Tentor-Feater Assembles Pl		0
Schöered Bress Radiator Tubes <sup>04</sup>	167,438	a
Copper-Brane Radiators including Steel (3)	2,886	٥
Sillicon Brassy Weld Wing	<b>1</b> 2	D
Total Modine (pounds)	1,020,941	

All	Aumham	8	Copper		_	9	Laud	김감	ā
Percent by Weight	Pounds	Percent by Whight	Pounds	Percent by Weight	Pounds	Percent by Weight	Pounds	Person by Weight	Pounds
θŪL	279,597	a	•	•	,.	0	-	0	•
8	127,577	a	-		-	0	•	0	
Þ		R	157,620	D		0		8	67,551
D	•	100	38,548	0		0	•	0	•
B		98	•	D		IZ.		Ŕ	-
¢	•	Ś	54.442	٥		9.44	929'51	37.10	30,761
9	•	\$	٠	٥	•	•	•	81	
9	•	98	104,985	٥		90	87,486	ā	44,865
•		87	1,380	12	344	8	622	36	1,003
В	•	2	157	P		0	•	A	66
	407,174		367,119		344		52,944		172,367

# Epolnobre

Generak rakelive percentages of motoriale within each scrap category are estimates.

- (1) Modine feelilities include: Jefferson Cliy, NO, Joplin, MO, and Trenton MO
- (2) "Assembled Abunhum Radiators" refera to the Becking Liet notation "Conteminated Atunhum", this includes etuminum examp containing brazing flux KAIFs.
  - (3) "Brass Containing Soties" refers to the Packing List nounten "Contaminated Brass".
- (4) Soldered Capper-Brass Redistors" raters to the Packing List notation "Conteminated Capper-Brass Redistors".
- (6) "Soldered Brass Radiator Tubes" refers to the Packing List notation "Combininated Brass Tube Parts".

(d) "Soldered Brass TanMffeeder Assembles" refers to the Packing List notation "Contaminated Tanks/Headers"

(7) "Coppor-Brase radiators including Shell" refers to the Paciding List notation "Contaminated Cores wife".

sheet: 2001 Modine Skyments - Chemistra



### Alpha-Fry Technologies Reclamation Services

4100 Sixth Avenue Altoena, PA 16602 Tel: (814) 946 1611

Toll Free: (800) 289 3797 Fax: (814) 946 1195

Web: www.frytechnology.com

March 21, 2008 (prist date)

Jim Ryan / Corporate Buyer Modine Manufacturing Co. Inc. Racine, Wisconsin

### Dear Jim

Alpha/Fry Technologies is a full-service recycler that offers accurate analysis with the highest possible yield from your solder scrap. Our recycling operations are performed in accordance with all local and federal regulations. You will benefit from the greatest recovery value for your material with the added assurance of environmentally safe processing.

Other benefits that partnering with Alpha/Fry Technologies will bring are cradle to grave liability, full time Environmental staff in Altoona, complete paper trail, prompt settlements and we are the only in-house smelter and refiner who manufactures solder in North America.

Alpha/Fry reclamation bids the following for your solder residue:

Item: Solder Dross
Market Date: Date of Arrival

Pricing: Recovered Tin at Low LME less .50/lb

Recovered Lead at Low LME less .05/lb

Treatment Charge: .20/lb on net weight received

Terms: Net 45 days/Check or Contra Account against new purchases.

Freight: Prepaid by Alpha/Fry
Contract Duration: 01/01/01 through 12/31/01

We look forward to partnering with Modine in the near future.

If you have any questions please do not hesitate to contact me at 800-289-3797 ext. 1684.

David V. Colmer Alpha/Fry Purchasing Manager printed 04/20/2010 1:10PM by epa4267 p. 70/223



#28-1 21 pages

## Storm Water Pollution Prevention Plan

for

Modine Manufacturing Company 1502 South Country Club Drive Jefferson City, MO 65109

> Original lesus Date: 3/31/93 Current Revision Date: 10/24/08

Reviewed 1966



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IJ.	Coordinator Listing	3
N).	Significant Materials	3
<b>V</b> .	Listing of Significant Spills and/or Leaks	3
<b>v.</b> 19	Sources of Possible Storm Water Pollution	3
VI. 、	Best Management Practices	3
VII	Employee Training	3
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## Figures

Figure 1 -	Significant Materials Potentially Exposed to Storm Water
Figure 2 -	List of Significant Spills and/or Leaks
Figure 3 -	Sources of Possible Storm Water Poliution Discharging Into Storm Water Conveyances
Figure 4 -	Best Management Practice(s) Identification of Methods
Figure 5 -	Employee Training
Figure 6 -	Storm Water Monthly Inspection Form
Figure 7 -	Storm Water Pollution Prevention Plan Revision History

## <u>Appendices</u>

Appendix A -	Pollution Prevention Coordinators and Alternates
Appendix B -	Site Map



## I. <u>Introduction</u>

The storm water Pollution Prevention Plan (PPP) is intended to reduce and/or eliminate any sources of "potential pollution" entering the environment by contacting with storm water. This plan is created to comply with both state and Federal regulations concerning storm water.

## II. Coordinator <u>Ustino</u>

The coordinator(s), alternate coordinator(s) and other personnel associated with the storm water regulations are listed in Appendix A.

## III. <u>Significant Materials</u>

The materials listed on Figure 1 are used or produced at this facility and have the greatest potential to be contacted with storm water. These materials are, loaded, unloaded, stored outside, or used inside in such a mariner that exhausted air could possibly contain residuels that might settle on the roof.

## IV. Listing of Significant Spille and/or Leaks

There have been no significant spills and/or leaks at this facility in the last three years. A significant spill and/or leak is considered an incident that exceeds the reportable quantity for the compound.

## V. Sources of Possible Storm Water Pollution

Source areas of possible storm water pollution at this facility are listed in Figure 3. Activities that are potential sources of storm water contamination include outside storage of materials, loading and unteading materials at receiving docks, and roof top runoff. Existing control practices include isolation of industrial materials from stormwater, inspection of materials before they are placed in outdoor storage areas, organization of materials in an orderly manner to facilitate periodic inspection for leaks/spills, and periodic inspection of outside storage areas as a precautionary measure.

## VI. Best Management Practices

The BMP methods for this facility include both state and federal mandated BMP's and Modine-specific BMP's as outlined in figure 4. State and federal mandated BMP's include "Good Housekeeping", Preventative Maintenance", "Visual Inspections", "Split Prevention and Response", "Erosion Control", and "Runoff Management".

The Modine-specific BMP's include "Minimization Potential" and "Other" categories. The "Minimization Potential" category includes any waste minimization plans and practices affecting a potential source of storm water pollution. The methods may include elimination, chemical substitution, recycling and other appropriate waste minimization activities.. The "Other" category contains future and other activities concerning the PPP that are not otherwise listed. This category may include future plant modifications or additions, system changes, and any other practices relevant to the storm water regulations.

## VII. Employee Training

Employee training consists of instituting the BMP's identified on Figure 4 and making employees aware of the importance of preventing stormwater politition. Training will be conducted periodically as needed by both plant and corporate personnel and will consist of verbal, on-the-job, and/or written formats. Training documentation will be recorded on the employee training form, figure 5.



### VIII. Inspection Reports

The Missouri stormwater general parmit requires two inspections: a daily undocumented visual inspection of the various stormwater BMP's and conveyances and a second documented monthly inspection of the same terms. The state specific monthly inspection form is included as Figure 6.

The monthly inspection must include observation and evaluation of BMP effectiveness, deficiencies, and corrective action that will be taken. If any items are found to be deficient through the monthly inspection, it must be corrected within seven (7) days of discovery and a letter must be sent notifying the Missouri Water Poliution Control Program of the deficiency and the corrective action taken.

An annual report detailing "any unusual occurrences such as spills, tank faitures or overflows, ruptured piping, ..." is to be sent to the state by October 28 of each year. "The report must also indicate if nothing unusual has occurred." See the permit for more detailed reporting requirements.

### IX. Revision History

The PPP will be reviewed and modified as necessary or as required by the storm water regulations. Figure 7 includes the documentation of any changes to the PPP.



# Floure 1 - Slowificant Materials Potentially Exposed to Storm Water

The second secon	Design Company	· · · · · · · · · · · · · · · · · · ·	1000		
Used equipment	NA	East pario	Covered, Concerts, Octobers	Variable	Secret for case or catil scrapped
Used warden pullets and boxes	МА	व्यवस्था	Uncovered, Consents, Outhors	Variable	Shored for recor or until scrupped
Misoshanous samp mainh (copper, bress, scrap tubos and coest, soder (boss)	Babe, pallets, bonze or drums	haide Racciving Dock	buida, Canarete	Variable	Stored for recycling
Stock and in plate somp	Covered semi-trailers	North of East Patho & Shipping dock roadway	Covered, Outcorte, Outdoors	2 Sera-Indian	Stored for recycling
Elipty drum	NA	Bus pubo	Unaward, Caranta, Ostbass	Value	Sund on side for mayoling
Wajawaka trainmal filter cales	20 ye <sup>2</sup> roboti	East of receiving dock	Covered, Osseretts, Oeddoces	20 yd" sollod	Stand prior to disposed
Metal ctoruge bira	NA	East perio	Uncovered, Concerte, Octobora	Variable	Stored prior to reme
Returnshin shipping twys	NA	Bert parlo	Uncovernd, Concrete, Outdoors	Variable	Slored prior to reuse
Stack Enhance Material	N	Roaf Tope	Stack discharge of particulate massful from process exhausts	Veystall	

Storm Water Pollution Prevention Plan



Figure 2 - List of Significant Spills and/or Leaks \*

			-	
	A Stormetal			
	Ampinio Matrini Recovered			
	A Part of the Part			
	Spiller Leek			
1000	-	,		
	Spilled or Leaked			
	Type of Managerial			
Location of Suff				
Was it a. Spill	Section Training			
Dute of Incident		Nome		

\*Spills that have occurred during the last 3 years



### Figure 3 - Sources of Possible Storm Water Pollution Discharging into Storm Water Conveyances

September 1	Material Spreed (See Fig. 1)	Material Stared Stared State Control and the grant (See Management )	THE REPORT OF THE PERSON OF TH
Material Storyge: East Posio	Some metals capper, bases, cares, and times takes. Used equipment and seed peru. Used wooden lones Used empty drums.	All materials atomed in an orderly manuer, on concount authors. Drums atomed together according to provious contrarts. They are stored on their sides with caps in place. All drams are weahed out prior to atomas contride.	Scrap metals: Reduce investory, store all metalish inside.  Lited equipment/parts: Elizabate storage equicie as areals as possible and cover the naminator.  Used wooden bergs: Sorap direptontaminated considers.  Used wooden bergs: Sorap direptontaminated considers.  Used empty duties: Minimal inventory as marks as possible and scrap reminder.  Inspect areas on a periodic basis to be sure no ordertal has Spien/mined on the ground.
	Semp stock	Makerial stored in choose top seres teatlers on concrete surface	inspect arros on a periodic basis to expert material around the trailers is swept up.
Material Storage:   Shipping Dook Rendowy	Scrip and	some amora collect formes of boxes telesial	Impost artes on a periodic later to course material is in the combiner and constituts is covered.
Material Storage/Loading Westweler Theaters Pitercake (East of reseiving dock)	Wastewater treatment skudge constraintsch with heavy metals	The wests meterial is stored to a 20 ye <sup>3</sup> rolloff that is covered with a terp when not being filled.	Import oran on a posiodic basis to crown tapp is in place and no material has follow/acted on the ground.
Material Stongs Truth Compacter	Plent trush	The water material is stored in a 20 yd covered comparess.	impact stres on a periodic basis to ensure no cill has kallod Som compactor and bruth has been prioded up account the unit.
Roof leader namoff from most tape	Stack Extrause	Particulate emissions that may settle us reof	heatel) filter media price to mark culturat when ever possible.



## Figure 4 - Best Management Practicals Identification of Methods

### Material Storage: East Patio Area

		語がある。大学の意味の
BMD Method	BMP Method Description of Control Auditty or BMP	plemontation Date
Good Housekeeping	Keep material in an orderly manner all in one area. Clean up leaks/dehris prompily.	Implemented
Preventative	Equipment inspected for oils/industrial renterials prior to outdoor storage.  Ensure that drums are drained/washed as completely as possible and that lids are tightly secured prior to storage.	Implemented
Inspections	Inspect area for leaks and debris on a periodic basis.	Implemented
Spill Response	If leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Contingency Plan for more information and details.	Implemented
Sediment/Erosion Control	NA	
Management of Rumoff	None	
Minimization Potential	Minimize the storage of equipment and empty drums outside by storing only what is absolutely needed.	Organing
Other	None	



## Figure 4 - Best Management Practice(s) Identification of Methods

## Material Storage: East Patio Area continued

Description of Control	Material is stored inside closed top semi- trailors. The area is kept clean and free from oils/debris.	Impact the hopper loads of scrap metal implemented prior to domping into the trailer for oil content.  Impact serie-trailers to ensure they are in good condition to contain scrap material.	Impact the area on a periodic basis to be amplemented sure that no scrap metals have fallen on the ground.	If leaks occur, contain and cleanap using Implemented appropriate cleanap materials. Refer to the facilities Contragency Plan for more information and denails.	NA	None	Minimize the amount of acrep metal Orgoing generated.	Name
Righ Method	Good Housekeeping	Proventative Majnitanese	Inspections	Spill Response	Sediment/Emsion Control	Management of Runoff	Minimization Potential	Oipe



## Floure 4 - Best Management Practice(s) Identification of Methods

## Material Storage: Shinning Dock Readway

BMP Method	Description of Courses Activity of Mail	Property of the Control of the Contr	Comment
Good Housekeeping		implemented	
Preventative Majnicipance	Inspect the loads of scrap metal prior to durquing into the rolloff for oil content. Inspect rolloff to ensure it is in good condition to contain accap material.	Implemented	
Inspections	Inspect the area on a periodic basis to be sure that no scrap metals have fallen on the ground and rolloff is cowared.	Implemented	
Spill Response	If leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Contragency Plan for more information and details.	Implemented	
Sediment/Brosion Control	NA		
Management of Runoff	None		
Minimization Potential	Minimize the amount of scrap metal generated.	Ongoing	
Other	None		

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### Gaure 4 - Best Management Practice(a) Identification of Methods

## Material Storage/Loading: Watewater Filtercake



## Figure 4 - Best Management Practice(s) Identification of Methods

## Material Storage: Trash Compactor Area

BMT Method	Description of Copies Activity or BRIE	
Good Housekeeping	Keep the compactor container located on a concrete surface. Cleaning any spills immediately.	Implemented
Preventative Maintenance	Nome	Implemented
Inspections	Inspect the area on a periodic basis to custure compactor is not leaking oil and that no waste materials have fallen on the ground.	Implemented
Spill Response	If leaks occur, combin and cleamp using appropriate cleamp materials. Refer to the facilities Continuency Plan for more information and details.	Implemented
Sediment/Enosine Control	NA	
Mungement of Runoff	Nove	
Minimizațion Potential	Minimize the amount of trash generated.	On-going
Other	None	
		i

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### Flaure 4 - Best Management Practice(s) Identification of Methods

### Stack Exhaust: Roof Top Areas



### Figure 5 - Employee Training

### Starmwater Training Documentation Short

Series Marie	Darie of Arelang		The state of the s
R Rucker J Dentlinger	3/16/93	General overview of storm water program, draft Pollution Prevention Program.	Training documentation in environmental filing system
Netson Roctigen Charles Bax	5/18/95	General overview of stormwater program, sampling procedures etc.	Training documentation in environmental filing system
General Plant Employees	6/13/95	Article in plant newsletter.	Training documentation in environmental filing system
General Plant Employee	59996	Article in plant newsletter.	Training documentation in environmental filing system
Charles Bex	8/18/97	General overview of stormwater program, sampling procedures etc.	Training documentation in environmental filing system
Charles Bax	716/98	General overview of starowater program, sampling, procedures etc.	Training documentation in covironmental filing system
Charles Bax Fred Braun	66/12/9	General overview of stoutswater program, sampling procedures etc.	Training documentation in covironmental filting system
Charles Bax Chris Rook	00/SZ/6	General overview of stormwater program, video tape "Just Passing Through".	Training documentation in caviromatical filing system
Charles Bax	10/11/21	General overview of stramwater program, sampling procedures etc	Training documentation in covironmental filing system
Charles Bax	11/21/03	General overview of stormwater program, sampling procedures etc	Training documentation in cavitonmental Ding system
Charles Bax	12/17/04	General overview of stormwater program, sampling procedures etc	Training documentation in environmental filing system



## WEEKLY ENVIRONMENTAL INSPECTION

Modine Jefferson City

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7	
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Month

(circle one)

Inspectors Signature:

Description of Area Inspected	Deficiencies Found (if Any)	Comments/Remedial Actions Needed	Date Remedial Actions
	See Portes		
Hazardone Waste Bludey Storage Area			
Hazardous Weste Setellite Storage - Dept. 15			
Hazardoue Wasta Satelike Storage - Dept.20			
Hazardous Weste Satellie Storage - Dept.30			
Hezardous Weste Setelike Storage - Dept.45			
Hazardous Waste Satellite Storage - Dept.65			
Hazardous Waste Satelille Storage - WWTS			
Hezardous Weste Satellite Storage - EDP			
East Patio Area			
Shipping Dock Roadway			
WWPT Filter Cake Storage Area			
Trash Compactor Dock Area			
Roof Tops			
Paint Storage Room			
Chemical Storage Rack			
Vertical Core Bake Oven			
Emergency Spill Kits			

### Weste & SPCC Plan. Compliance Notes

- A Containers are leaking or in poor condition.
- B Container covers not in place or in pace condition.
  - C Containers Improperty labeled.
- D Containers contain residue on outside.
- E Containers not arranged in an orderly manner with unobstructed access.
  - F Stange are not deen and the from spittlesk residue.

### Stormwater Consollance Note

- A Material has leaked onto the ground or roof.
- B Storage container(a) not covered or under roof.
- e Sexage container(s) demaged or in poor condition.
- D Tarps or material covers damaged or in poor condition.
- E Olb/contemination present on wood material or empty rums.
  - F Other (see comments).

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### Modine - Jefferson City, Masouri

- G Floor area shows algra of debaforation or credex which may allow a spit to personate to the soil.
  - H. Cleaning and emergency equipment is not present or in working order (if applicable).
    - I Storago anno piple spece is inadequate.
      - J Applicable algns not present.
- K Nors than 55-gallons of any one hazardous wests container in a satelitte area.
  - L Other (bee comments).

### **P**OTE:

Our discharge partell requires that deficiencies must be corrected immediately, documented in writing, and a followup report submitted to the DNR. 1024/05



## Figure 7 - Storm Water Pollution Prevention Plan Revision History

			Plan changed from word perfect format to Microsoft word formst.								
A Company of the Party of the Company of the Compan	NA	ΑΊ	Coordinater Listing		Coordinator Listing	Ail	All	All	νп	All	
Way was the Mediate (Red. Unit.	Original Plan	New Survey and Coordinator Changes	Coordinator Changes	Misc small changes	Coordinator change and mise small changes	Coordinator changes, New MO General SW Permit Issuance	General changes including coordinator change and table 6 change.	Update training and facility storage locations	Update training and facility storage becations and coordinator listing	Update of Secility storage locations and training.	
Bunder											
Diete	3/31/93	43093	\$411/9\$	8/17/95	8/6/97	8/4/99	00/11//	12/6/00	10/27/01	10/24/05	



Appendix A
Pellution Prevention Coordinators and Alternates

・ 「	Coordinator of program; responsible for training, supervising of sampling, plan implementation and other related storm water activities.	Alternate coordinater of program; name responsibilities as the coordinater.	Attemete coordinator of program; sume responsibilities as the coordinator.	Corporate contact for regulatory information.
Office Telephone	573/893-4848 Ext 240	573/893-4848 Ext 203	573/893-4848 Ext	262/636-1396
	Mamifacturing Engineer	Engineering Manager	Майтелалос Зирстука	Environmental Engineer
Euployee	Churles Bax	Зчассу Ячит	Rich Morff	Edward Besaw

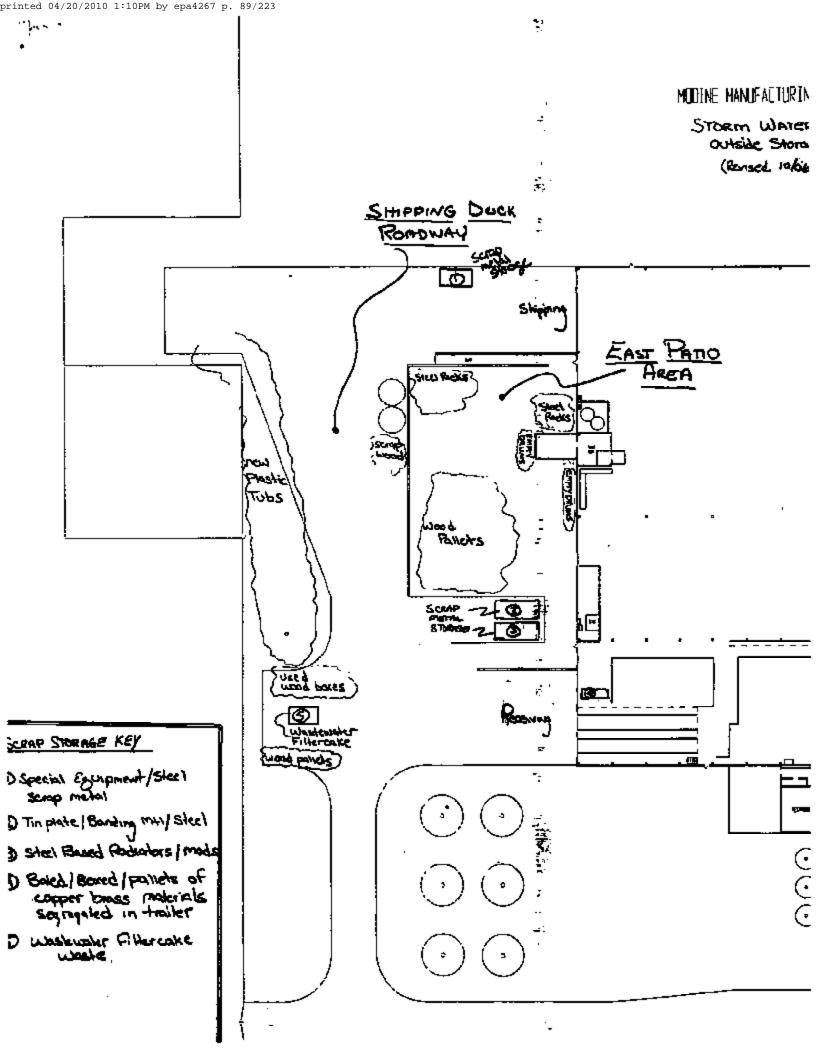
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### **APPENDIX B**



### STORM WATER POLLUTION PREVENTION PLAN FOR MODINE MANUFACTURING COMPANY 3300 WEST SEVENTH STREET P.O. BOX 1405 JOPLIN, MO., 64801

Latest Revision Date: 11/8/06

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### I. Introduction

The storm water Pollution Prevention Plan (PPP) is intended to reduce and or eliminate any sources of "potential pollution" entering the environment by contact of exposed materials with storm water. The plan for Modine Manufacturing Company's Joplin, Missouri facility was created to comply with both state and federal regulations concerning storm water management.

### II. Coordinator Listing

The coordinator, alternate coordinator(s), and other personnel associated with storm water management are listed in Appendix A.

### III. Significant Materials

The materials listed in Table 1 are the materials that have the greatest potential to come in contact with storm water because they are stored outside. There are other materials stored at this facility that are considered "significant", but have negligible potential to come in contact with storm water. These materials include copper, brass, stainless steel rolls and sheets and hibricating oils. These materials are not transported or bundled outside and do not come in contact with storm water. Oily scrap metals are also stored at the facility, but these materials are stored inside an enclosure and are not exposed to storm water.

### IV. <u>Listing of Significant Spills and/or Leaks</u>

There have been no significant spills and/or leaks at this facility over the previous 3 years (See Table 2). A significant spill and/or leak is considered an incident that exceeds the reportable quantity for that metarial.

### V. . Sources of Possible Storm Water Pollution

The possible sources of storm water pollution (See Table 3) are taken from Table 1. Existing control practices include covering the materials with a tarp or similar covering and storing the materials within an existing building with roofing and secondary containment. Materials stored outdoors that are exposed to storm water will be periodically inspected to determine if existing storage practices are adequate to prevent contamination of storm water runoff. Current storm water control practices will be changed if outdoor storage practices are found to be inadequate.

### VI. Best Management Practices

The BMP methods for this facility (See Table 4) include the EPA mandated BMP's and Modine-specific BMP's.

The Modine-specific BMP's include "Minimization Potential" and "Other" categories. The minimization potential category includes the waste minimization plans and practices (if any) for any potential source of storm water pollution. The methods may include elimination, chemical substitution, recycling and other appropriate waste minimization activities. The "Other" category contains future and additional activities for the PPP that are not otherwise listed. This category may include future plant modifications or additions, system changes and any other practices relevant to the storm water regulations.

Daily inspections of storm water management practices will be conducted at the facility to ensure that all BMP's at the facility are continually implemented and effective. Any deficiencies and corrective actions taken as a result of these inspections will be documented. A deficiency must be corrected within seven days and the Missouri WPCP notified by letter. The form in Table 7A is provided as part of the WPPP to document the results of the daily inspections. These inspection reports will be kept on site with the SWPPP.

An annual operating report is due to the Missouri WPCP by October 28 of each year. The report must detail any unusual occurrences, such as spills, leaks or overflows of materials into the environment. If nothing unusual occurred, the report must contain a statement to that effect. The daily inspection reports can be summarized and used as the basis for this annual operating report.

### VII. Employee Training

Employee training (Table 5) consists of instituting the BMP's identified in Table 4. Training will be conducted both on an on-going, periodic basis and annually, with training consisting of verbal, on-the-job, written (if applicable) and other training as deemed necessary. Training will be conducted by both plant and corporate personnel.

### VIII Non-Storm Water Discharge Certification

The Non-Storm Water Discharge Assessment form, Table 6, contains the required information for the PPP. The test method consists of visual inspection of the outfall, tracing of the outfall piping (if applicable) by both plant drawings and blueprints and other necessary procedures for the certification.

### Update of the PPP

The PPP will be periodically reviewed and modified as needed or as required by the storm water regulations. Table 8 is included to document any changes that are made to the PPP.

### X. Storm Water Sampling Results

Storm water sampling results from previous sampling events can be found in the environmental records at the facility.

### XI. <u>Pacility Security</u>

Facility access is limited. The property is surrounded by a fence and has a guarded entrance. All visitors entering and leaving the facility must sign in or out with the guard. Only authorized visitors, contractors, vendors, delivery and service people and employees are allowed to enter the building. Employees as well as visitors must possess a valid identification to gain building access. Once inside the building, visitors are escorted by plant employees. There is also limited access to hazardous materials inside the facility and only authorized employees are allowed to have access to them.

Facility: <u>Joulin</u> Location (City/State): <u>Jopiln, MO</u>

# Table 1 - Significant Materials Potentially Exposed to Storm Water

Material Stored	Type of Container	Where Stored	Type of Storage (covered, pad, indoors/outbook)	Average Quantity Stored	Comments
Scrap Metals	Open top trailer	SW comer of property	Outdoors on concrete pad, uncovered	24 cubic yards	Contains steel, stainless steel
WWTS Sludge	% cubic yd. self- dumping hoppers	WWTS	Indoors	6 cubic yards	Contains non hazardous WWTS sludge
Used Machinery	None	SW comer of property	Ouldoors on concrete pad, covered & uncovered	75 cubic yards	Stored for disposal or rause.
Used Clean Paliets	None	SW comer of property	Outdoors on concrete pad, uncovered	150 Cubic yards	Not covered under Storm Water Reg.
New pallets	None	SW comer of property	Outdoors on concrete pad, uncovered	150 Cubic yards	Not covered under Storm Water Reg.
Clean Emply Drums	55 gailon drums (steel or plastic)	SW comer of property	Outdoors on concrete pad, uncovered	10-15	Awaiting disposal or reuse
Wooden Retumable Packaging	None	SW comer of property	Outdoors on concrete pad, uncovered	15 cubic yards	Awalting reuse
Trash	20 cu yd closed top hopper	NE comer of property, shipping	Outdoors on concrete pad, covered	15-20 cu yards	Stored, awaiting disposal
Plastic Returnable packaging	None	SW comer of property and warehouse	Outdoors, covered Outdoors, uncovered Indoors	75 cu yards	Stored awaiting re-use

Facility: Joplin Location (City/State): Joplin, MO

Table 2 - List of Significant Spills and/or Leaks

	Corrective Action Taken	- 8  -					Corrective Action Taken	<u>8</u>			Corrective Action Taken	8 		
	Release Information	Amount of Material material exposed recovered to Storm Water?					Release Information	Amount of Material exposed recovered to Storm Water?		] . 	Release Information	Amount of Material exposed recovered to Storm Water?	_	
-	Release	Amount of Am material ms released rec					Release	Amount of Am material ms released reca			Release	Amount of Amumaterial me		_
		Ceuse of Spill of Leak						Cause of Spill of Leak				Cause of Spill of Leak		
	Description of Incident	Source					Description of Incident	Source			Description of Incident	Source		
	Description	Quentity Spilled or Leaked					Description	Quantity Spilled or Leaked			Description	Quantity Spilled or Leaked		
		Type of Material						Type of Material				Type of Material		
	Location of Spill or Leak			'	,		Location of Spill or Leak				Location of Spill or Leak			
	Spill or Leak						Spill or Leak				Sp≣or Leak			
1st year Prior	Date of Incident		NONE			2nd year Prior	Date of Incident		NONE	3rd year Prior	Date of Incident		NONE	

Facility: Joplin Location (City/State): Joplin, MO

Table 3 - Sources of Possible Storm Water Pollution Discharging into Storm Water Conveyances

Material Stored	Location	Existing Control or	New or Planned Control or
	,	Management Practice(s)	Managément Practice(s)
Scrap Metals	See Appendix B	Outdoors on concrete pad,	Inspect and cover rolloff if any
		uncovered	oil found leaking out of rolloff
WWTS Sludge	See Appendix B	Indoors	None
Used Machinery	See Appendix B	Outdoors on concrete pad,	Name
		covered, uncovered or in	
		storage bldg.	, ,
Used Clean Pallets	See Appendix B	Outdoors on concrete pad,	Reuse or dispose of
		uncovered	
New pailets	See Appendix B	Outdoors on concrete pad,	None
		uncovered	
Clean Empty Drums	See Appendix B	Outdoors on concrete pad,	None
		sealed and on their side	
Waste Coolant	See Appendix B	Stored inside, in waste storage	None
		area	
Wooden Returnable Packaging	See Appendix B	Outdoors on concrete pad.	None
		uncovered	
Trash	See Appendix B	Outdoors on concrete pad,	None
		covered	
Plastic Returnable Packaging	See Appendix B	Outdoors, covered	None
		Outdoors, uncovered	
		Indoors	

Facility: <u>Jooltn</u> Location (City/State): <u>Joplin, MO</u> <u> Table 4 - Best Management Practice(s)</u> <u>Identification Methods</u>

Pollutant Source: Scrap Metals

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Remove any debris on ground, inspect storage building for leaks daily	10/1/83	Utility Person
Preventative Maintenance	None	None	None
Inspections	Inspect container and storage area for clutter daily	7/1/95	Utility Person
Spill Response/Inspaction	Cleanup Scrap Metals	10/1/93	Utility Person
Sediment/Erosion Control	None	None	None .
Management of Runoff	Inspect for leaks and document findings weekly	8/29/96	Maintenance Department
Minimize Potential	Reduce amount of scrap generated	on going activity	Superintendent
Other	If any oil found leaking out of rolloff, implement cover	8/29/96	Coordinator

Facility: Joplin Location (City/State): Joplin, MO

Table 4 - Best Management Practice(s)

Pollutant Source: WWTS Sludge	•1	Storage is now indoors (no exposure to storm water)	
BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Remove any debris on floor.	10/1/00	Maintenance Department
Preventative Maintenance	None	None	None
Inspections	Inspect container and storage area for clutter daily	10/1/00	Maintenance Department
Spill Response/Inspection	Cleanup spilled sludge by shoveling into container	10/1/93	Maintenance Department performs weekly inspections
Sediment/Erosion Control	None	None	Norse
Management of Runoff	Covered Sealed container in use	10/1/93	Maintenance Department
Minimize Potential	None	None	None
Other	None	None	None

Facility: <u>Jopiln</u> Location (City/State): <u>Jopiln, MO</u>

Table 4 - Best Management Practice(s)

Pollutant Source: Clean Used Wooden Pallets

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Store pallets on concrete pad in an orderly manner	10/1/93	Material Handling Department and Utility Person
Preventative Maintenance	None	None	None
Inspections	Inspect storage area for clutter daily	10/1/93	Utility Person
Spill Response/Inspection	Dispose of broken or unusable pallets.	10/1/93	Material Handling Department and Utility Person
Sediment/Eroslon Control	None	None	None
Management of Runoff	None	None	None
Minimize Potential	Dispose of unusable pallets monthly	78/6	Material Handling Department and Utility Person
Other	None	None	None

Facility: Joulin Location (City/State): Joplin, MO

## Table 4 - Best Management Practice(s) Identification Methods

Pollutant Source: Used Machinery and Equipment

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Store equipment on concrete pad in an orderly manner	10/1/93	Maintenance Department
Preventative Maintenance	None	None	None
Inspections	Inspect storage area for clutter and fluid leaks daily	10/1/93	Utility Person
Spill Response/Inspection	Cleanup spilled oils with absorbent day and dispose of properly	10/1/93	Maintenance Department
Sediment/Erosion Control	None	None	None
Management of Runoff	Uncovered equipment does not contain oils or other chemicals.	10/1/93	Maintenance Department
Minimize Potential	Store used machinery and equipment in a storage building	1/1/96	Maintenance Department
Other	None	Norie	None

Facility: Joplin Location (City/State): Joplin, MO

## Table 4 - Best Management Practice(s) Identification Methods

Pollutant Source: New Wooden Pallets

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Store pallets on concrete pad in an orderly manner	10/1/83	Material Handling Department
Preventative Maintenance	None	None	None
Inspections	Inspect storage area for clutter daily	10/1/93	Uliffty Person
Spill Response/Inspection	Dispose of broken or unusable pallets.	10/1/83	Materials Control Department
Sediment/Eroslon Control	None	None	None
Management of Runoff	None	None	None
Minimize Potential	Investigate retumable packaging alternatives	on going	Production Control Department
Other	None	None	None

Facility: Jopiln Location (City/State): Jopiln, MO

Table 4 - Best Management Practice(s)

Pollutant Source: Clean Empty Drums

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Store drums on SW concrete pad adjacent to warehouse	26/6	Utility Person
Preventative Maintenance	None	None	None
Inspections	Inspect storage area for clutter and leaks dally	10/1/93	Utility Person
Spill Response/Inspection	Contain and cleanup using absorbent clay.	10/1/93	Utility Person
Sediment/Erosion Control	None	None	None
Management of Runoff	Install lids or bungs securely and store clean drums on their sides if placed on outside pad.	10/1/93	Utility Person
Minimize Potential	Scrap drums on bi monthily basis	gulog no	Ufility Person
Other	None	None	None

Facility: <u>Joplin</u> Location (City/State): <u>Joplin, MO</u>

Table 4 - Best Management Practice(s) Identification Methods

Pollutant Source: Waste Coolant

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Stored inside, in waste storage area	76/6	Utility Person
Preventative Maintenance	Nane	None	None
Inspections	Inspect storage area for clutter and leaks weekly	10/1/93	Utility Person
Spill Response/Inspection	Contain and cleanup using absorbent clay.	10/1/93	Utility Person
Sediment/Erosion Control	None	None	None
Management of Runoff	Inspect for leaks and document findings weekly	26/8	Utility Person
Minimize Potential	Minimize volume by evaporating.	guiag no	Utility Person
Other	None	Nane	None

Facility: Joplin Location (City/State): Joplin, MQ

## Table 4 - Best Management Practice(s) Identification Methods

Pollutant Source: Plastic Returnable Packaging

BMP Method	Description of Control Activity or BMP	Implementation Date	Responsibility
Good Housekeeping	Stored inside, in waste storage area	5000	Material Controls
Preventative Maintenance	None	None	None
Inspections	Inspect storage area for clutter and leaks weekly	2000	Utility Person
Spill Response/Inspection	Contain and cleanup using absorbent clay.	2000	Utility Person
Sediment/Erosion Control	None	None	None
Management of Runoff	Inspect for leaks and document findings weekly	2000	Utility Person
Minimize Potential	Store indoors as possible	BujoB wo	Material Controls
Other	None	None	None

Facility: Joblin Location (City/State): Joplin, MO Table 5 - Employee Training Record

Pollutant Source: Scrap Metal

Employee	BMP Method Training	Date of Training	Type of Training (verbal writen, plant, etc.)	Comments
Cary Oserowsky	cover, cleanup spilled material	6/21/95	verbal, written	
Cary Oserowsky	inspect area for leaks/spills. If present, cover rolloff	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	inspect area for leaks/spills. If present, cover rolloff	8/22/97	verbal, stormwater PPP	
Cary Oserowsky	inspect area for leaks/spills. If present, cover rolloff	9/23/98	verbal, stormwater PPP	
Cary Oserowsky	inspect area for leaks/spills. If present, cover rolloff	8/18/99	verbal, stormwater PPP	
Cary Oserowsky	inspect area for leaks/spills. If present, cover rolloff	00/90/90	verbal, stormwater PPP	
Ron Kegerries, Jr.	inspect area for leaks/spills. If present, cover rolloff	07/10/02	verbal, stomwater PPP	
All Future Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Filed at a Different Location

Facility: Joblin Location (City/State): Joplin, MO

## Table 5 - Employee Training Record

Pollutant Source: WWTS Sludge

Етрюуев	BMP Method Training	Date of Training	Type of Training (vertee), written, plant, sto.)	Comments
Cary Oserowsky	cover, cleanup spilled material	6/21/95	verbal, written	
Dan Campbell	cover, cleanup spilled material	6/21/95	verbal, written	1
Cary Oserowsky	cover, cleanup spilled material	8/28/96	verbal, stormwater PPP	
Dan Campbell	cover, cleanup spilled material	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	8/22/97	verbal, stormwater PPP	
Dan Campbell	cover, cleanup spilled material	8/22/97	verbal, stomwater PPP	•
Cary Oserowsky	cover, deanup spilled material	9/23/98	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	8/18/99	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	00/90/90	verbal, stormwater PPP	
Ron Kegerries, Jr.	cover, cleanup spilled material	07/10/02	verbal, stormwater PPP	
All Fature Starm Water	Training Will be Documented	Uping the	"Employee Training Record and Certification" Form	and Filed at a Different Location

Facility: Joplin Location (City/State): Joplin, MO

## Table 5 - Employee Training Record

Pollutant Source: Used Machinery and Equipment

Employee	BMP Method Training	Date of Training	Type of Training (verbal, written, plant, etc.)	Commente
Cary Oserowsky	cover, cleanup spilled material	6/21/95	verbal, written	1
Cery Oserowsky	cover, cleanup spilled malerial	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	8722/97	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	9/23/98	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	8/18/99	verbal, stormwater PPP	
Cary Oserowsky	cover, cleanup spilled material	00/90/90	verbal, stormwater PPP	
Ron Kegemiss, Jr.	cover, cleanup spilled material	07/10/02	verbal, stormwater PPP	
All Future Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Filed at a Different Location

Facility: Joplin Location (City/State): Joplin, MO Table 5 - Employee Training Record

Pollutant Source: Clean Used Pallets

Employee	BMP Method Training	Date of Training	Type of Training (verted, written, plant, etc.)	Соттепта
Cary Osarowsky	Inspect quarterly for deanliness	6/21/95	verbal	l
Cary Oserowsky	Inspect quarterly for deanliness	8/28/86	verbal, stormwater PPP	:
Cary Oserowsky	Inspect quarterly for cleanliness	8/22/87	varbal, stormwater PPP	ı
Cary Osarowsky	Inspect quarterly for cleanliness	86/27/8	verbal, stormwater PPP	-
Cary Oserowsky	Inspect quarterly for cleanliness	8/16/88	verbal, stormwater PPP	
Cary Oserowsky	Inspect daily for cleanliness	00/90/90	verbal, stormwater PPP	
Ron Kegerries, Jr.	Inspect dally for cleanliness	07/10/02	verbal, stormwater PPP	
All Future Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Filed at a Different Location

Facility: Joplin Location (City/State): Joplin, MO Table 5 - Employee Training Record

Pollutant Source: New Pallets

Етріоува	BMP Method Training	Date of Training	Type of Training (versat, wither, plant, etc.)	Comments
Cary Öseröwsky	Inspect quarterly for cleartiness	6/21/95	verbal	
Cary Oserowsky	Inspect quarterly for cleanliness	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	Inspect quarterly for cleanliness	8/22/97	verbal, stormwater PPP	
Cary Oserowsky	Inspect quarterly for cteanliness	9/23/98	verbal, stormwater PPP	
Čary Oserowsky	Inspect quarterly for deanliness	8/18/99	verbal, stormwater PPP	
Cary Oserowsky	Inspect daily for deanliness	00/90/90	verbal, stomwater PPP	
Ron Kegemies, Jr.	Inspect daily for deanliness	07/10/02	verbal, stormwater PPP	
All Future Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Fled at a Different Location

Facility: Joplin Location (City/State): Joplin, MO

# Table 5 - Employee Training Record

Pollutant Source: Clean Empty Drums

Employee	BMP Method Training	Date of Training	Type of Training (verbel, writer, plant, etc.)	Comments
Cary Oserowsky	Inspect quarterly for deenliness	6/21/95	verbal	
Cary Oserowsky	Inspect quarterly for deanliness	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	Inspect quarterly for deaniness	6/Z2/97	verbal, stormwater PPP	
Cary Oserowsky	Inspect quarterly for deanliness	8423/88	verbal, stormwater PPP	
Čary Oserowsky	inspect quarienty for deanliness	8/18/99	verbal, stormwater PPP	
Cary Oserowsky	Inspect daily for cleanliness	00/90/90	verbal, stormwater PPP	
Ron Kegernes, Jr.	inspect daily for cleaniness	07/16/02	verbal, stormwater PPP	
All Future Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Fibed at a Different Location
				:

115000

; ;

Facility: Joplin Location (City/State): Joplin, MO

# Table 5 - Employee Training Record

Pollutant Source: Waste Coolant

Employee	BMP Method Training	Date of Testalas	Type of Training	Comments
Cary Oserowsky	Cover, inspect monthly for leaks	6/21/85	verbal	
John Ford	Cover, inspect monthly for leaks	6/21/95	verbal	
Dan Campbell	Cover, inspect monthly for leaks	6/21/95	verbal	
Cary Oserowsky	Cover, inspect monthly for leaks	8/28/96	verbal, stormwater PPP	
John Ford	Cover, inspect monthly for leaks	8/28/96	verbel, stormwater PPP	
Dan Campbell	Cover, inspect monthly for leaks	8/28/96	verbal, stormwater PPP	
Cary Oserowsky	Cover, inspect monthly for leaks	8/22/97	verbal, stormwater PPP	
Cary Oserowsky	Cover, inspect monthly for leaks	9/23/98	verbal, stormwater PPP	No longer stored outside
All Fature Storm Water	Training Will be Documented	Using the	"Employee Training Record and Certification" Form	and Filed at a Different Location

Facility: Joplin Location (City/State): Joplin, MO

# Table 6 - Non Storm Water Discharge Assessment

during Test Roof Drains Sump near Receiving Dock	Visual , plant drawing and blueprints	Results (presenthot present)	Employee who	
Drains p near aiving Dock	Visual , plant drawing and blueprints	(presentinot present)	•	
Drains p near siving Dock	Visual , plant drawing and blueprints		conducted the Test	
p near siving Dock	Winited mines	No non stormwater discharges present	S. J. Evans	I
	visual, plant drawing and blueprints	No non stormwater discharges present	S. J. Evens	1
Inspect storage area for clutter and leaks weekly	Visual , plant drawing and blueprints	No non stomwater discharges present	S. J. Evans	I
Roof Drains	Visual-dry	No nonstormwater discharges present	S. J. Evans	
Sump near receiving dock	Visual-⊓o flow	No nonstormwater discharges present	S. J. Evans	
inspect storage area for clutter and leaks	Visuai-no flow	No nonstormwater discharges present	S. J. Evans	
All three outfalls	Visual-no flow	No nonstormwater discharges present	S. J. Evans	
All three outfalls	Visual-no flow (after rainfall)	No nonstormwater discharges present (after rainfall)	S. J. Evans	
All three outfalls	Visual-dry	No nonstormwater discharges present	S. J. Evans	
All three outfalls	Visual-dry	No nonstormwater discharges present	S. J. Evans	
All three outfalls	Visual-dry	No nonstormwater discharges present	S. J. Evans	
Comprehensive	Storm Water	Management site	Compliance Inspection &	Evaluation Report
W MI 196.EID MIS IS IS IS IS IS	Inspect storage area for clutter and leaks weekly Roof Drains Sump near receiving dock inspect storage area for clutter and leaks All three outfalls All three outfalls All three outfalls Comprehensive	P P	blueprints Visual , plant drawing and blueprints Visual-no flow Visual-no flow (after rainfall) Visual-dry Visual-dry Visual-dry Visual-dry Visual-dry Visual-dry Visual-dry	blueprints  Visual , plant discharges present discharges present blueprints  Visual-no flow discharges present discharges present Visual-no flow No nonstormwater discharges present dis

Facility: <u>Joplin</u> Location (City/State): <u>Joplin, MO</u> This Page Reserved for Table 7A - Dally Storm Water Inspection Form

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Modine Manufacturing Company Storm Water Inspection Form General Permit No. MO-R203104

Figure 7A

9104

BMP Name: Good Housekeeping

	·	<u> </u>						- 1							ļ								T		T									
	Inspection Comments																																	
	İ									<u> </u>		<u> </u>			<u> </u>	1	1	-	1	1								_	 		-		 <del> </del>	
LUNOFF	Trash	Compactor																											    -					
RMWATERR	Returnable	Packaging		+				- <del> </del> -				†			1											!   								
PACTING STO	Empty	Deums	- <del> </del> 	1		+		1	<del> </del>   		1	+			-	1								†						T	1			
ENTIALLY IM	Light Light	Equipment																   		-			<del> </del>		<del> </del>		1	1	1	+		1		
TO STORY	www.Shidge Used Empty Returnable Trash	Container	┞												<u> </u>		   				<del> </del>		<b>+</b> -		1		+							
	Seran Metal V		╀						<del> </del>										<del> </del>	-		1												
	╟		Sugaran		-			<u> </u>																										
		Date :	Month Yr:	1 - 6	<u> </u>	1	- "	7	0 1		. 0	-	<u> </u>	: 5	3 2	2 2	1 4	2 .	2 !		==	<u>-</u>	22	717	22	23	24	22	78	27	28	29	30	31

Inspection Codes: A : Stored material is covered; B : No spilled material evident; C : No leaks evident; D : No visible contamination evident from source

Facility: Joplin Location (City/State): Joplin, MO Table 7B - Storm Water Annual Inspection Form

Location SW Storage Pad
NE Trash Compactor SW and S Outfalls
SW storage pad, WWTS rolloff, NE
SW storage pad, WWTS rolloff, NE
Trash Compactor and Steel Scrap Rolloff
Trash compactor and scrap steel rolloff
SW storage pad, sludge rolloff
SW storage pad, sludge rolloff
Trash compactor and scrap scrap scrap
SW storage pad, sludge rotloff
Trash compactor and scrap steel rolloff

Facility: Joplin Location (City/State): Joplin, MQ

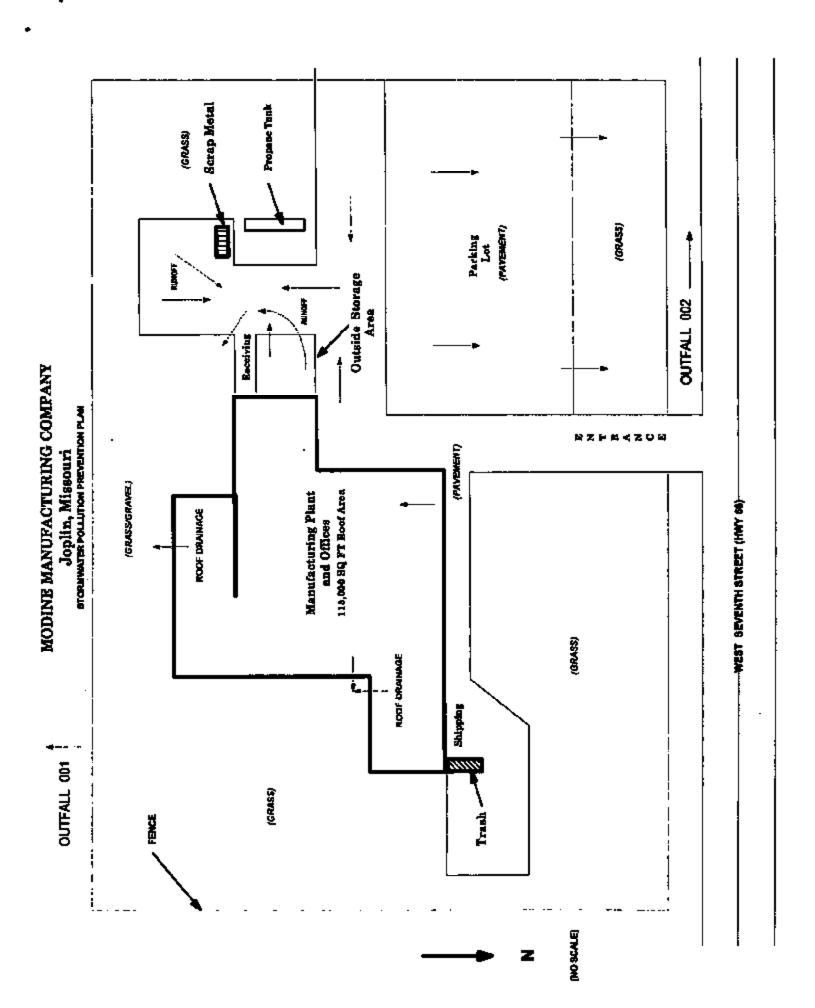
# Table 8 - Storm Water Pollution Prevention Plan Update Record

Date of Revision	Employee	Why was plan modified? (Spill, lest, Government Mandate, etc.)	What Part of Plan was Modifled	Comments
56/5/8	Cary Oserowsky	To reflect current conditions and procedures	lle)	Result of Annual Review by S. J. Evans
96-62-8	Cary Oserowsky	To reflect current conditions and procedures	lle.	Result of Annual Review by S. J. Evans
26/91/6	Cary Oserowsky	To reflect current conditions and procedures	Ties	Result of Annual Review by S. J. Evens
9/24/98	Steve Evans Cary Oserowsky	To include most recent inspection results	Tables 5, 6, 7, 8	Result of Annual Review by S. J. Evans
9/24/99	Steve Evans	To include recent training & inspections & new procedures	Tables 5, 6, 7, 8 and Section VI	Result of annual review by S. J. Evans
00/90/90	Steve Evans	To include recent training & inspections & new procedures	Tables 4, 5, 6, 7 and 8	Result of annual review by S. J. Evans
08/01/02	Steve Evans	To include recent training & inspections	Tables 5, 6, 7 and 8	Result of annual review by S. J. Evans
11/10/03	Ron Kegerries, Jr.	To include recent training & inspections & new procedures	lle.	Result of annual review by S. J. Evans & R. Kegernies
7/28/04	Ron Kagerties, Jr.	To reflect current conditions and procedures	Tables 5-8	Result of armual review by R. Kegerries
2/06/06	Sleve Evans	Added section on Facility Security	P. 2, Table of Contents and cover page	Result of armual review by S. Evens
11/8/06	Steve Evans Ron Kegerries, Jr.	To reflect current conditions and procedures	Tables 1, 2, 3, 4 & 8	Result of annual review by S. Evans & R. Kegerries

Facility: Joplin Location (City/State): Joplin, MO

# Appendix A - Pollution Prevention Plan Coordinators and Alternates

Employee Name	Titto	Office Telephone	Responsibilities
David Brown	Manufacturing Engineering Manager	417/781-9500	Coordinator of program: responsible for training, supervising of sampling, inspections, plan implementation, spill response, and other storm water related activities.
Ron Kegemies, Jr.	Senior Process Specialist	417/781-9500	Responsible for housekeeping, sampling, labeling, and other storm water management related activities.
			Alternate coordinator of program: same responsibilities as the coordinator
Stephen Evans	Environmental Engineer	262/636-1321	Corporate contact and advisor for regulatory information.



Location (City/State): Joplin, MO Facility: Jouln

Page:21 of 22

### Certification

), Stephen Evans certify under penalty of law that this document and all attachments were prepared under my direction or responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system or those persons directly

Steven J. Evans - Environmental Engineer Name and Official Title:

Signature:



### Storm Water Pollution Prevention Plan For

For Modine Manufacturing Company 822 Industrial Drive Trenton, Missouri 64683

> Issue Date: 3/31/93 Revision # 6: 9/27/07



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٧.	Sources of Possible Storm Water Pollution	3
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VII	Employee Trafning	3
VIII.	Facility Monitoring & Inspections	3
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### **Agures**

Figure 1 -	Significant Materials Potentially Exposed to Storm Water
Figure 2 -	List of Significant Spills and/or Leaks
Figure 3 -	Sources of Poesible Storm Water Pollution
Figure 4 -	Best Management Practice(s)
Figure 5 -	Employee Training
Figure 6 -	Non-storm Water Discharge Assessment and Certification Statement
Figure 7 -	Storm Water Monthly Inspection/Report Form
Figure 8 -	Storm Water Pollution Prevention Plan Update Record

### Appendices

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Appendix A - Site Map
Appendix B - Completed Monthly Inspection/Report Forms

Storm Water PPP September 27, 2007



### Introduction

The storm water Pollution Prevention Plan (PPP) is intended to reduce and/or eliminate any sources of \*potential pollution" entering the environment by contacting with atorm water. This plan was created to comply with both state and Federal regulations concerning storm water.

### II. <u>Coordinator Listing</u>

The coordinator(s), alternate coordinator(s) and other personnel associated with administrating the storm water regulations for Modine's Trenton facility are listed on page 4.

### UL Significant Materials

The materials listed in Figure 1 are used or produced at this facility and have the greatest potential to be contacted by storm water. These materials are loaded, unfoaded, or transported between buildings, stored outside, or used inside in such a manner that exhausted air could possibly contain residuals that might settle on the roof.

### IV. Listing of Significant Spills and/or Leaks

There have been no significant spills and/or leaks at this facility over the previous three years. A significant spill and/or leak is considered an incident that exceeds the reportable quantity for the compound.

### V. <u>Sources of Possible Storm Water Pollution</u>

Source areas of possible storm water pollution at this facility are listed in Figure 3. Activities that are potential sources of storm water contamination include outside storage of scrap wood, loading and unloading materials at receiving docks, transportation of raw or scrap material between buildings, and roof top runoff. Existing control practices include isolation of industrial wastes from storm water, inspection of materials before they are placed in outdoor storage areas, organization of materials in an orderly manner to facilitate periodic inspection for leaks/spile, and periodic inspection of outside storage areas as a precautionary measure.

### VI. Best Management Practices

The BMP methods for this fecility include both state and federal mandated BMP's and Modine-specific BMP's as outlined in Figure 4. State and federal mandated BMP's include "Good Housekeeping", Preventative Maintenance", "Visual Inspections", "Spill Prevention and Response", "Erosion Control", and "Runoff Management". The Modine-specific BMP's include "Minimization Potential" and "Other" categories. The Minimization Potential category includes any waste minimization plans and practices affecting a potential source of storm water pollution. The methods may include elimination, chemical substitution, recycling and other appropriate waste minimization activities.

### VIL Employee Training

Employee training consists of instituting the BMP's Identified on Figure 4 and making employees aware of the importance of preventing storm water pollution. Training will be conducted periodically as needed by both plant and corporate personnel and will consist of verbal, on-the-job, and/or written formats. Training documentation will be kept on file and recorded on the employee training form, Figure 5.

### VIII. Facility Monitoring & Inspections

Facility monitoring consists of daily informal housekeeping inspections, weekly informal inspections that may be combined with other environmental inspections, written monthly facility compliance inspections, and completion of an annual storm water operating report. The monthly compliance inspections will consist of a physical walk through of potential atorm water contamination sources followed by completion of a written report form. The written report will include details of BMP effectiveness, deficiencies, and corrective measures that will be taken. Any deficiencies uncovered will be corrected within seven days. The state will also notified in writing of any deficiencies along with the corrective actions taken. An annual storm water operating report will be submitted to the state by October 28 of each year. The report will review any unusual events (splits, remediation work, etc) at the facility that could have effected storm water during the previous year. If no unusual situations have occurred, the report will indicate this facility

### DX. Non-storm Water Discharges/Certification

This facility currently does not have any sources of non-storm wastewater discharging to storm water outfalls. The non-storm water discharge certification form, Figure 6, contains documentation that all outfalls discharging storm water from Modine's Tranton facility have been evaluated for the presence of non-storm water discharges. Evaluation methods employed at this facility included dry weather visual inspection of storm water outfalls and review of facility sewer piping blueprints.

### X. Update of the PPP

The PPP will be reviewed and modified as required by storm water regulations or as necessary due to changes at the facility. Figure 8 contains documentation of any changes to the PPP.



### Pollution Prevention Coordinators and Alternates

Епрюуве	Title	Office Talephone	Responsibilities
Dyle Wison	Senior Manufacturing Engineer	(660) 359-3976 ext 1544	Coordinator of prognem; responsible for training, supervising of Inspections, plan implementation and maintenance, and other related storm water activities.
Scott May	Engineering Manager	(880) 359-3976 ext 1540	Alternate coordinator of program; same responsibilities as the coordinator.
мезод римру	Corporate Environmental Engineer	(262) 636-(386	Alternate coordinator of program; corporate contact for regulatury information and assistance.



Figure 1 - Significant Materials Potentially Exposed to Storm Water

Naterbi	Type of Container	Area Where Potential Exposure May Occur	Description of Activity Where Potential Exposure May Occur	Average Quertity of Material knotved	Comments
Used wood storage (pallets, bindes, and bases)	Nors	East Patio Area & South Patio Area	Outside starage of used wooden boxes/pallets on asphalfooncrafts surface	Variable	Street until disposal pickup.
Used Equipment	None	East Perio Area & South Perio Areo	Covered outside atomage of used equipment on sephraliforments as surface	Variable	Skred for reuse or until scrapped.
Used empty drums	None	East Patio Area & West Patto Area	Outdoor storage of cleaned and cleaned and cleaned drums on their aides on expital/concrete surface.	Variothin	Shred for reuse or until scrapped.
Miscellaneous Virgin Chemicals	55-gallon drums	Shipping and receiving East Pato Area	Uniosating of misoellaneouss churuned chemicals braide at sealed truck dock shipping and receiving errec.	Variable	
Statick Exhaust Material	¥	Roof tops	Stack discharge of perfoulars material from process extra res	Vary email	
Returnable Metal Racking	None	South Pado Area, West Patio Area	Outside storage of clean reusable material racking on asphalfoonorate surface.	Vertable	Stored for neuse or until scrapped.
Scrap Metals (aluminum, steel)	Covered Box Van Traiber	North shipping and receiving dock	Strage of scapped metals (hatchpalerized) inside closed box van docked at leading door.	Variable	Stored until disposal pickup.
Mscellaneaus Wasies	55-gallon drums and ouble yard boxes	Waste Strage Building Area	Movement of weste meteral into the weste storage building Loading of weste meterals onto burdes for off site disposal.	Variatie	

Floure 2 - List of Stanfficant Sollis and/or Leaks

T <sub>E</sub>				
Messures Taken	(зев соптем)			
¥	9es)		:	
iton	Materiel Exposed to Storm water			
Release Information	Amount of Amount of Material Material Recovered			
	Amount of Material Released			
	Reesson for Spill or Leak			
Description of Incident	Source			
	Quantity Spilled or Leaked			
	Type of Material			
Location of Spill or Leak				
Was it a Spall or Least?				
Date of Incident		Alone		

"Spills that have occurred during the lest 3 years



Figure 3 - Sources of Postrible Storm Water Pollution Discharging into Storm Water Conveyences

SourceLocation	Activity Causing Possible Shorn Water Contamination	Meterial Involved (See Fig. 1)	Existing Control and/or Management Practice(s)	New or Planned Control Menagement Practice(s)
	1. Mahariel olorege	1. Used wood pallets, blooks, etc	1. Standard BluD'n.	1. None
		2. Used equipment	2. Standard BMP's.	2. None
Sheet flow from east page area		3. Used empty druma	3. Sandard BMPs.	3. None
	2. Nativital Handling	1. Paint and olis	1. Sandard BMP's	4. None
		1. Used word pallets, blocks, etc.	1. Standard BMP's.	1. None.
		2. Used equipment	2. Standard DAP's.	2 None.
Sheet flow from south paids area	Material storage	3. Used empty drums	A. Standard BMPs.	3. None.
		4. Reusable metal racking	4. Standard DMP's.	4. None.
		1. Used empty drums	1, Standard BMP's.	1. None
Sheet flow from west patio area	Material storage	2. Reusable metal anding	2 Standard BMPs.	2 None
Sheet flow from shipping/receiving area	Majorial handing	Miss chemicals in drums	Standard EMPs	None
Sheet flow waste storage area	Material transfing	Misc wastes in drams and board	Sundard BMP's	None
Sheet frow from truck dock erea	Metherlal strongs	Serap metals	Standard BMP's	None
Roof leader runoff from rookspa	Start Exhaust	Partochale Enlissions that may cettle on roof	Service of PAPP	None



# Figure 4 - Best Management Practice(s) Identification of Methods

## Material Storage: East Patio Area

BMP Method	Description of Control Activity or BMP	Implementation Date	Comments
Good	Keep material in an orderly manner in designated areas.	Inplemented	
Housekeeping	Clean up leaks/debris promptly.	Implemented	
	Check all material for olls/conteminants prior to outdoor storage.	Implemented	
Preventative Maintenence	Insure that empty drums are fully drained, lids are tightly secured, and external surfaces are weahed prior to storage outside.	Implemented	
	traure that drums are stored on their sides with bung openings parallel to the ground.	Implemented	
	Visually inspect area for leaks and debria on a daily and weetty basis.	Implemented	
rispections	Conduct monthly written inspections of all areas. Notify DNR of any deficiencies.	Implemented	
	thispect material covers to insure that they are in place and functional.	Implemented	
Spill Response	If leaks occur, contain and cleanup using appropriate deemup materials. Refer to the facilities Contingency Plen for more information and details.	Implemented	
Sedment/Erosion Control	None		
Managament of Runoif	None		
Minamization Potential	Minimize the storage of material outside by: Reducing the amount of waste Storing only what is absolutely needed	On-going On-going	
Other	None		

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# Figure 4 - Best Management Practice(s) kentification of Methods

## Material Storage: South Patio Area

BMP Method	Description of Control Activity or BMP	Implementation Date	Comments
Good	Keep material in an orderly manner in designated enses.	Implemented	
Housekeeping	Clean up leaks/debrts promptly.	Implemented	
	Check all material for oils/contaminants prior to outdoor storage.	Implemented	
Preventative Maintenance	Insure that empty drums are fully drained, fits are hightly secured, and external surfaces are washed orlor to storage outside.	Implemented	
	Insure that drum a are stoned on their sides with bung openings parallel to the ground.	Implemented	
	Visually inspect area for teaks and debris on a delity and weekly basis.	pepueuvejdių	
Inspections	Conduct monthly written inspections of all greas. Notify DNR of any deficiencies.	Implemented	
	Inspect material covers to Insure that they are in place and functional.	Implemented	
Spill Response	if hasks occur, contain and desnup using expropriate cleanup materials. Refer to the facilities Contingency Plan for more information and details.	belmemekoni	
Sediment/Erosion Control	Nore		
Management of Runoff	. sun		
Minimization Potential	Minimize the storage of material outside by: Reducing the amount of waste Storting only what is absolutely needed	On-gaing On-gaing	
Other	Nore		

September 27, 2007 Storm Water MPP



## Figure 4 - Best Management Practice(s) identification of Methods

## Material Storage: West Patio Area

BMP Method	Description of Control Activity or BMP	Implementation Date	Comments
Good Hausekeeping	Keep material in an orderly manner in designated areas. Ckeen up leaks/debris promptly.	Implemented https://www.ted	
Preventative Meintenance	Check all material for oils/contaminants prior to cutdoor elorege. Insure that empty drums are fully drained lids are tightly secured, and external surfaces are westled prior to storage.	Implemented Implemented	
	curside. Insure that drum a are stored on their sides with bung openings parallel to the ground.	mplemented	
	Visually inspect area for leaks and debria on a daily and weekly basis.	Profemented	
Inspections	Conduct monthly written inspections of all areas. Notify DNR of any deficiencies.	Implemented	
	Inspect material covers to insure that they are in place and functional.	mplemented	
Spil Response	If leaks occur, contain and clearup using appropriate clearup materials. Refer to the facilities Contingency Plan for more information and details.	редментерфиј	
Sediment/Erosion Control	None		
Management of Runoff	None		7
Minimization Potentist	Minimize the storage of material outside by: Reducing the amount of waste Storing only what is absolutely needed	On-gaing On-going	
Other	None		

September 27, 2007 Storm Water PFP



# Figure 4 - Bost Management Practice(s) Identification of Methods

# Material Storage: - North Dock Area

BMP Method	Description of Control Activity or BMP	Implementation Date	Comments
Good Housekesping	Clean up any spilled scrap metal material in promptly.	Implemented Implemented	
Preventative Maintenance	Check all material for gloss amounts of olisticanteminants prior to placement into trailer.  Insure that trailer is tightly secured to dock and a weather tight seal around trailer is in place.	Implemented	
Inspections	Visually inspect area for leafs and debris on a daily and weekly basis.  Conduct monthly written inspections of all areas. Notify DNR of any deficiencies. Inspect baller seal to insure that it is in place and functional.	Implemented Implemented Implemented	
Spill Response	If leads occur, contain and dearup using appropriate dearup materials. Refer to the facilities Contingency Plen for more information and details.	Implemented	
SedimenVErosion Control	None		
Nenegement of Runoff	None		
Minimization Potential	Minimize the storage of scrap metal by reducing the amount of waste generated.	On-going	
Offver	None		

. 01



### Flaure 4 - Best Management Practice(s) kientification of Methods

# Material Handling: Waste Storage Bullding Area

EMP Method	Description of Control Activity or BMP	Implementation Date	Comments
Good Housekeeping	Clean up leaks/debris promptly.	Іпретенда	
Preventative	Provide spill kit inside building. Insure spill kit is checked for completeness on a periodic basis.	ттрететва	
Maintenance	Use approved drum handing equipment for fork bucks when moving urpalistized drums.	brokemented	
Inaperations	Visually impect outside area for leaks and debits on a daily and weekly basis. Conduct morthly written inspections of all areas. Notify DNR of any deficiencies.	Implemented	
Spil Response	If leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Contingency Plan for more information and details.	implemented	
Sedment/Erosion Control	None		
Menagement of Runoff	Nore		
Minimization	Minimize the quantity of wastes generated whenever possible.	втретентва	
Potential	Substitute less hazardous chemicals for hazardous ones whenever possible.	On-going	
Other	None		

September 27, 2007 =



# Figure 4 - Best Management Practice(s) Mentification of Methods

# Material Handling: Shipping and Receiving Area

BMP Method	Description of Control Activity or BMP	mpkemantation Date	Comments
Good Housekeeping	Clean up leaks/debris promptby.	Implemented	
Preventative	Provide spil kit near dook area, Insure dook area, Insure dook area spil kit is checked for completeness on a periodic lessis.	Implemented	
Maintanance	Use approved drum handling equipment for fork trucks when moving unpatietized drums.	Implemented	
Inspections	Visually inspect outside area for leaks and debris on a delity and weekly basis. Conduct monthly written inspections of all areas. Notify DNR of any deficiencies.	implemented	
Spil Response	If leaks occur, contain and clearup using appropriate clearup materials. Refer to the tacities Contingency Plan for more information and details.	решещер	
Sediment/Erosion Control	None		
Management of Runoff	None		
Minimization Potential	Minimize the quantity of chemicals received by only ordering the minimum amount needed.	Implemented	
	Substitute hazardous chemicals for less hazardous ones whenever possible.		
Other	None		



# Figure 4 - Beet Management Practice(s) identification of Methods

## Stack Exhaust: Roof Top Areas

hod Description of Control Activity or BMP  Make sure process and alr polation control equipment is operating property.  Blue Change out air filters on a regular basis.  The Change out air filters on a regular basis.  Visually inspect outside area for leaks and debrie on a daily and weekly basis.  Conduct manthly written inspections of all areas. Northy DNR of any deficiencies.  If leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Confingency Plan for more information and defails.  None  None  None  None				
<del>                                     </del>	BMP Method		Implementation Date	Comments
Change out air filters on a regular basis.  Visually inspect outside area for leaks and debris on a daily and weekly basis.  Conduct monthly written inspections of all areas. Notify DNR of any deficiencies.  If leaks occur, contain and cleanup using appropriate cleanup meterials. Refer to the facilities Confingency Plan for more information and details.  None	Good Housekeeping	Make sure process and air politikon control equipment is operating property.	Implemented	
Visually inspect outside area for leaks and debris on a daily and weekly basis.  Conduct monthly written inspections of all areas. Notify DNR of any deficiencies. If leaks occur, contain and cleanup using appropriate cleanup meterials. Refer to the facilities Confingency Plan for more Information and defails.  None  None	Preventative Maintenance		Implemented	
Conduct monthly written inspections of all areas. Notify DNR of any deficiencies. If leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Confingency Plan for more information and details.  None  None	Perceptus	Visually inspect outside area for leaks and debris on a daily and weekly basis.	Implemented	
ff leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Confingency Plan for more information and details.  None  None	Sinnado:	Conduct monthly written inspections of all areas. Notify DNR of any deficiencies.	Implemented	
<del>                                     </del>	Spăl Responee	if leaks occur, contain and cleanup using appropriate cleanup materials. Refer to the facilities Confingency Plan for more information and details.	Implemented	•
<del>-   -  </del>	Sectment/Erosion Control	None		
	Management of Portoff	None		
	Minimization Potential	None		
	Other	None		



## Figure 5 - Employee Training

# Storm water Training Documentation Sheet

Employee Name (	Date of Training	Training Description	Comments
General Plant Population	10/4/94	News article in weekly plant publication	Documentation on file in Environmental Handbook Vol 2
Dyle Wilson	7/26/85	Clasaroom instruction	
Dyle Wilson	8/22/96	Classroom Instruction	Documentation on file in Environmental Handbook Vol 2
Dyle Wilson	19/9/87	Claseroom instruction	Documentation on file in Environmental Handbook Vol 2
Dyle Wilson, L Leininger, J Engleman, & C Bailey	88/62/1	Мето	
D. Wilson	12/21/99	Classroom Instruction	Documentation on file in Environmental Handbook Vol 2
See documentation on file in the training records file for all future training records			



# Figure 6 · Non-Storm Water Discharge Assessment and Certification

This facility curently does not have any active sources of non-storm water discharge going to its storm water outfall (001). This is based upon simple dry weather assessment which included a visual impedition of the outfall (001) during a sustained dry weather period. That is a visual impedition of the outfall (001) during a sustained dry weather period.

Continuents (Test Results)	No flow was detected in outfall 001 while observing discharge under dry weather conditions.	
Method Used to Test or Evaluate the Discharge	Dry weather observation of outfall discharge to make sure that there were no active non-storm water connections.	
Outfall Observed	100	
Date of Test or Name of Person Evaluation Evaluation	Lany Loininger	
Date of Test or Evaluation		

I certify under peneity of lew that this information is, to the test of my knowledge and belief, true, accurate, and complete. I am aware that there are significant peneities for submitting false information, including the possibility of the and inpresonment for knowledgers.

Larry Leininger	Manufacturing Engineering Manager - Trenton Plant	No.: (660) 359-3976		
Name:	Title: Manufac	Telephone No.:	Signature:	Date:



# Figure 7 - Storm Water Monthly Self inspection Form

- A Material has spilled or leaked onto the ground or roof
- B Equipment not covered or under roof
  C Storage containen(s) damaged or in poor condition
  D Tarps or material covers damaged or in poor condition
  E Olla/contamination present on wood material or empty drums

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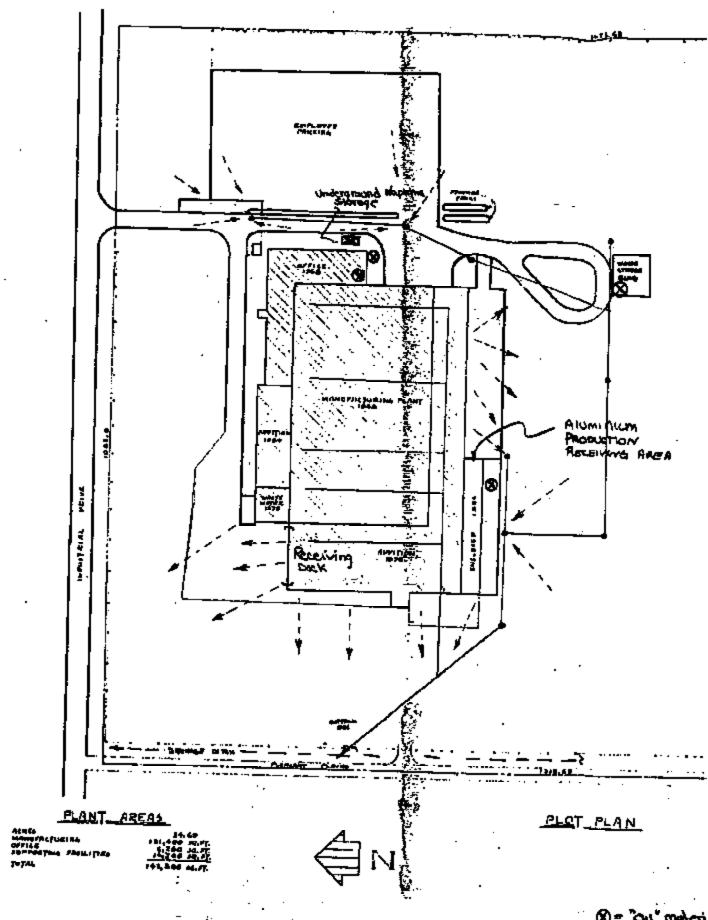
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F - Spill kit demeged or lecking supplies G - Empty drums not sloved property H - Other (see comments)

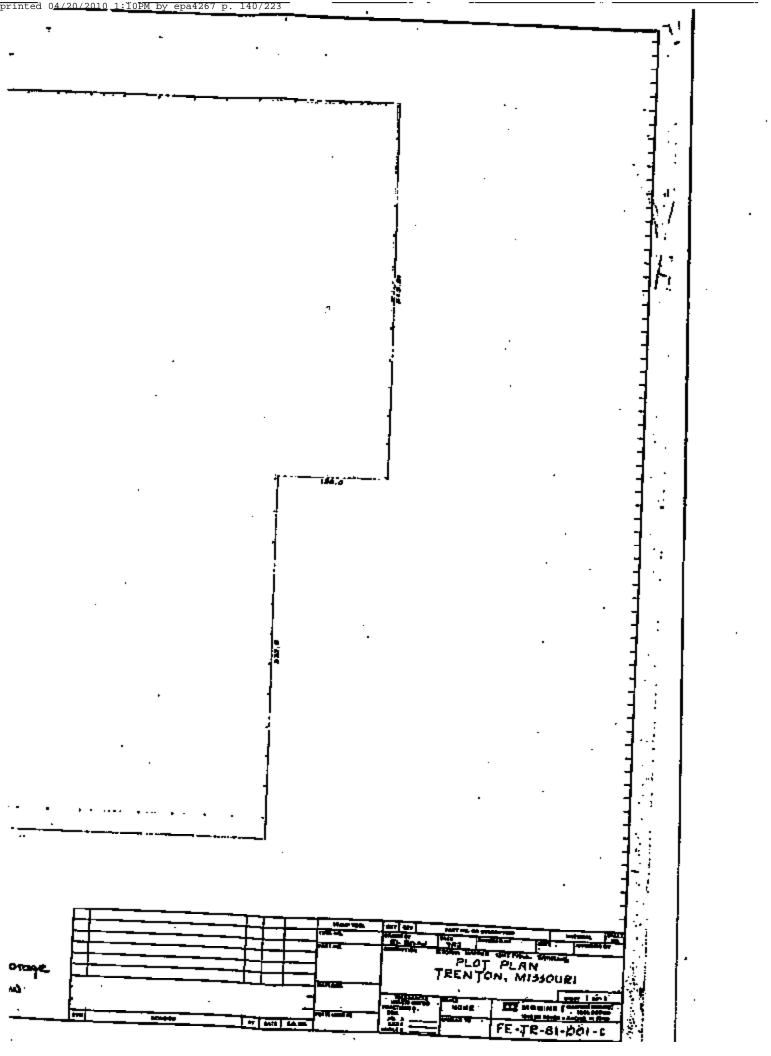


# Figure 8 - Storm Water Pollution Prevention Plan

Date of Update	Employee Signature	Why was Plan Modified (Spill, Leak, Government Mandated, etc.)?	What Part of the Plan was Modified	Comments
3/31/93		Original Plan	₩	
7/25/85		General Update	Seary elsergy	Numerous changes and emprovements were made to the plants outside storage practices.
10/29/99		General Update	Lading Pign	Changes made to reflect the new storm water pomit requirements.
1/16/03		Coordinator change, general update	Coordinator listing, entire plan	Change corporate coordinator
2728/03		Coordinator drange, naphitha tank removal, process change (copper/brass elimination)	иаф едиз	
11/22/05		Coordinator change	Entire plan	
975908		Update to plan to reflect changes in the manufacturing process, building modifications and auch findings	Ending plan	Changes to building (removal of the WWTS area and reconfiguration as a shipping dock) removes references to the WWTS and drying beds, audit finding regarding inspections
2012/67		Update of coordinator names	மத் வந்பத	Sautools to Besew



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# WEEKLY ENVIRONMENTAL INSPECTION

Modine Jefferson City

1/5/2001

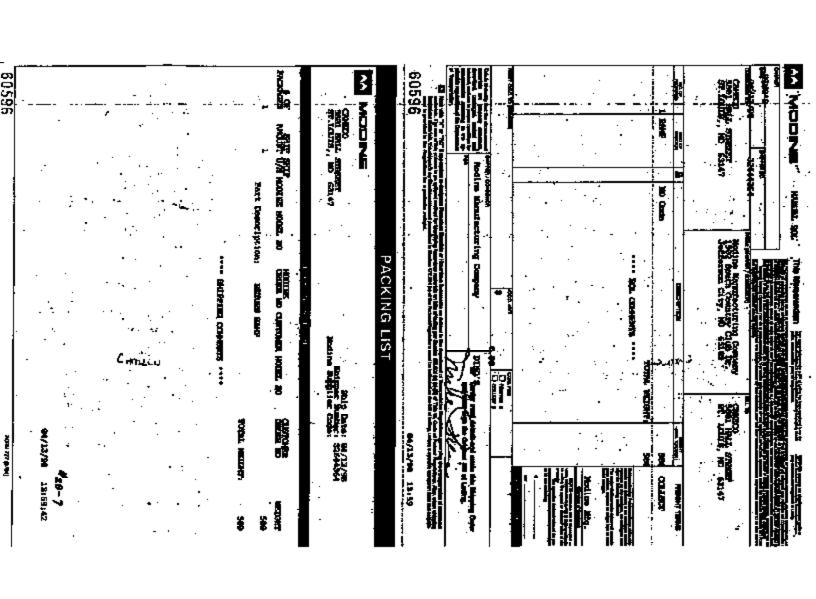
Description of Area Inspected	Deficiencies Found	Comments/Remedial Actions Needed	Date Remedial
	(if Any)		Actions
Waste Compliance			
Hazardous Waste 90-day Storage Area	ð		
Hazardous Waste Satellite Storage - Dept.15	š		
Hazardous Waste Satellite Storage - Dept.20	ě		
Hazardous Waste Satellite Storage - Dept.30	ð		
Hazardous Waste Satellite Storage - Dept.45	₹		
Hazardous Waste Satellite Storage - Dept.65	ð		
Hazardous Weste Satellite Storage - WWTS	ð		
Hezardous Weste Satellite Storage - EDP	ð		
Storm Water Compliance			
East Patio Area	₹		
Shipping Dock Roadway	ð		
WWPT Filter Cake Storage Area	×		
Trash Compactor Dock Area	¥o		
Roof Tops	Ж		
Oil SPCC Plan Compilance			
Paint Storage Room	Ж		
Chemical Storage Rack	OK		
Hand Paint Booth	OK.		
Vertical Core Bake Oven	χo		

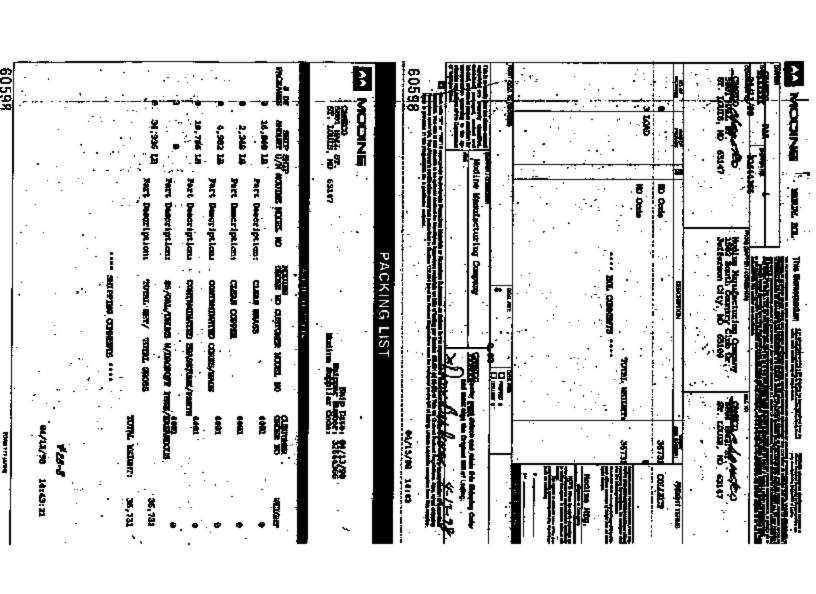
## Wasta & SPCC Plan Compilance Notes

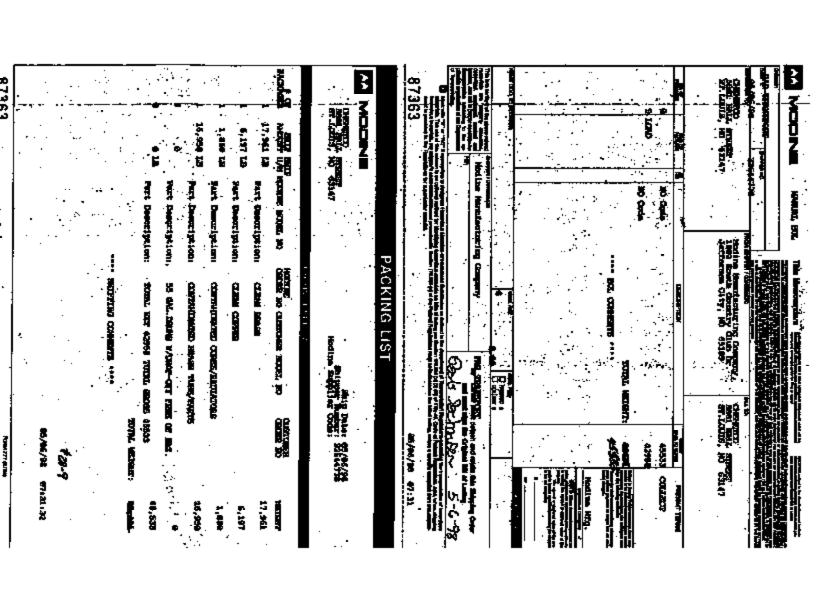
- A Containers are leaking or in poor condition.
- B Container covers not in place or in poor condition.
- C Containers improperly labeled.
- D Containers contain residue on outside.
- E Containers not arranged in an orderly manner with unobehucted access.
  - F Storage area not clean and free from spill/leak residue.
- G Floor area shows signs of deterioration or cracks which may allow a spill to penetrate to the soil.
  - H Cleaning and emergency equipment is not present or in working order (if applicable).
    - Storage area siale space is inadequate.
      - Applicable aigns not present.
- K More than 55-gallons of any one hazardous waste container in a satelitie area.

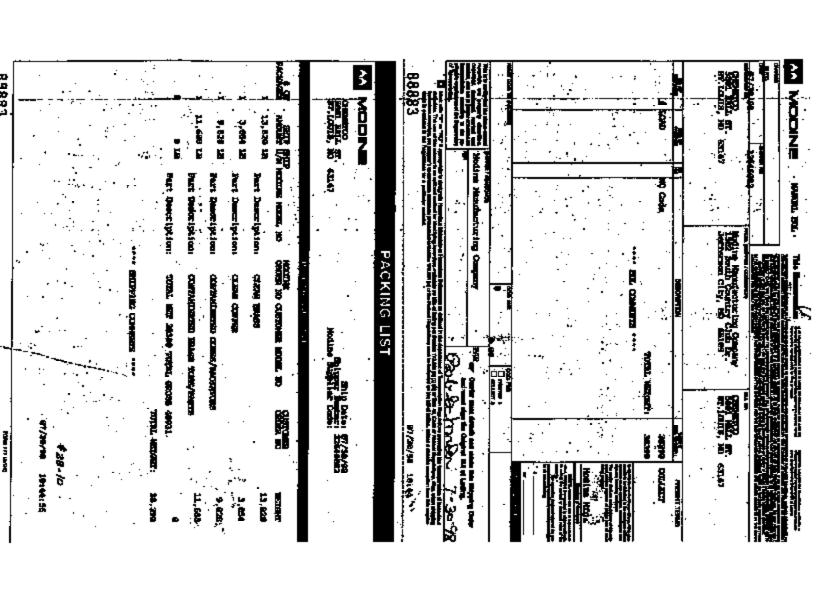
## Stormwater Compliance Note

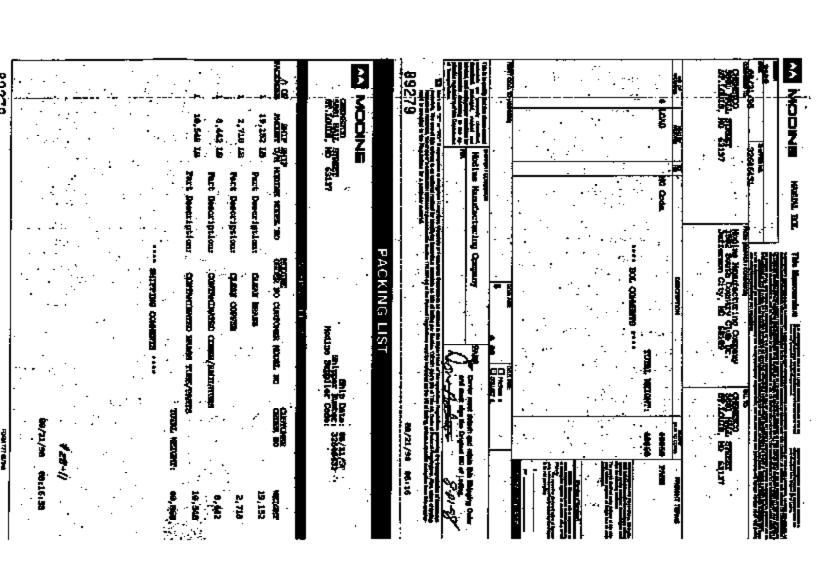
- A Metertal has leaked onto the ground or roof.
- 8 Storage container(s) not covered or under roof.
- c Storage container(s) damaged or in poor condition.
- Tarps or material covers damaged or in poor condition.
- E Oils/contemination present on wood material or empty drums.
  - F Other (see comments).

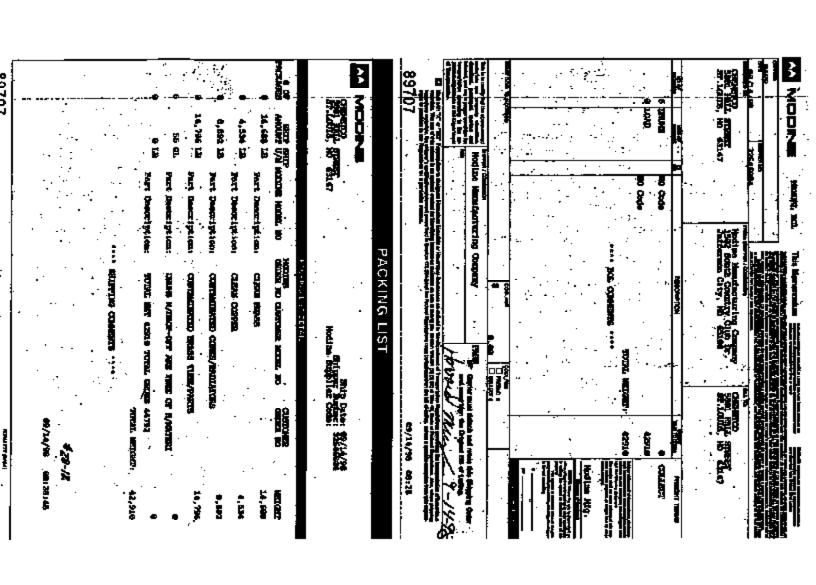


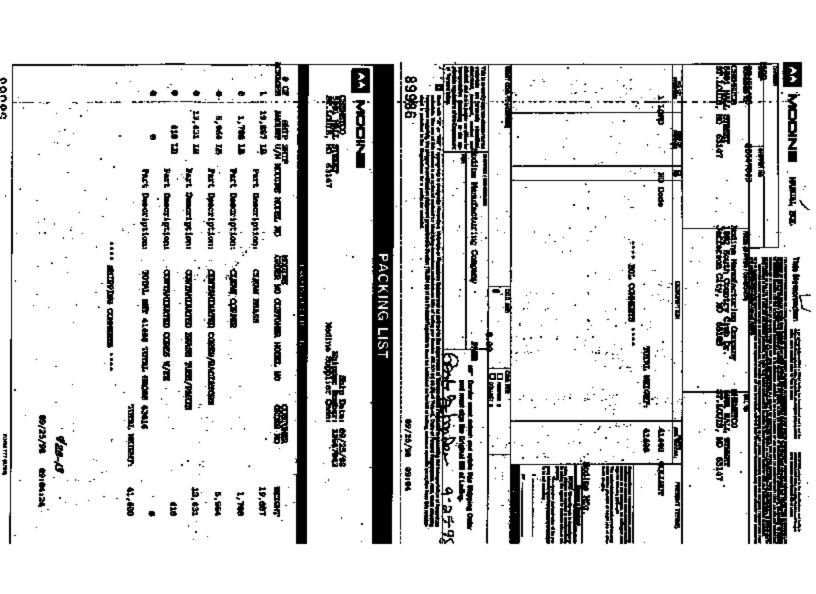


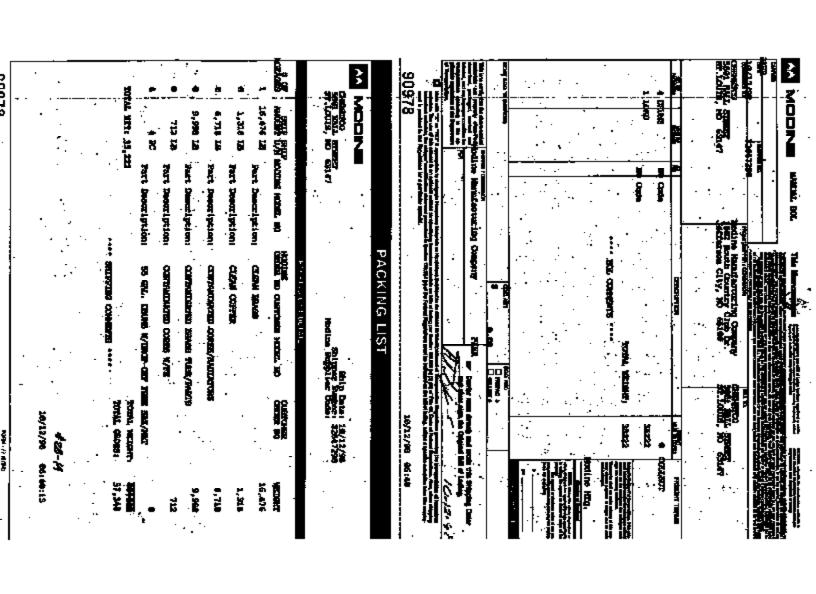


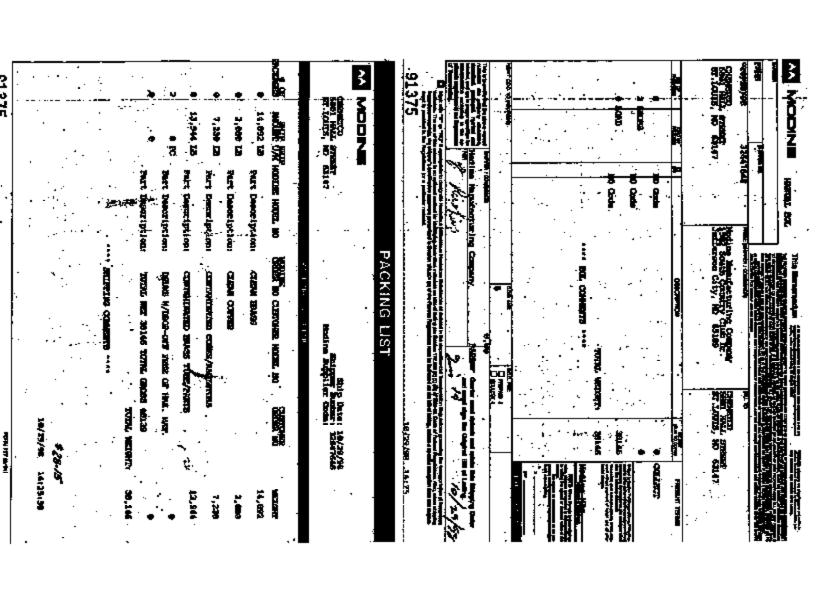


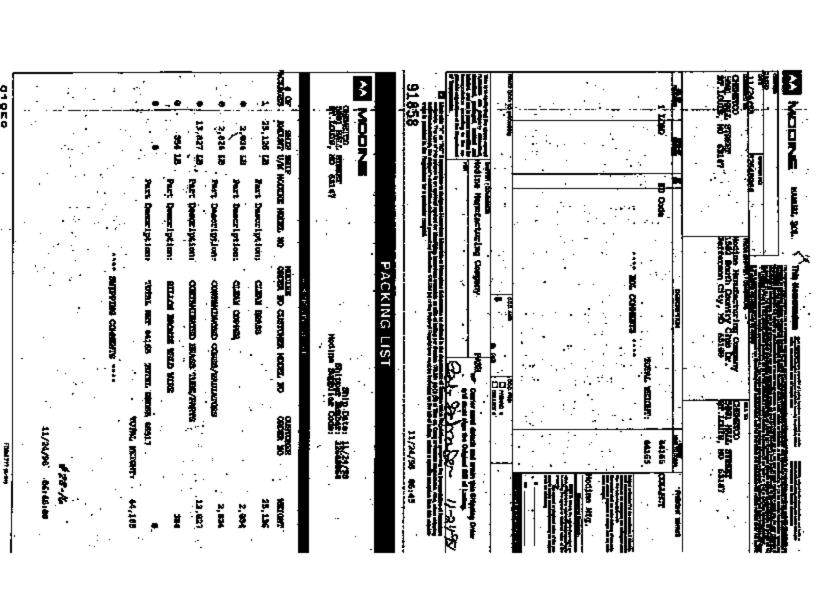


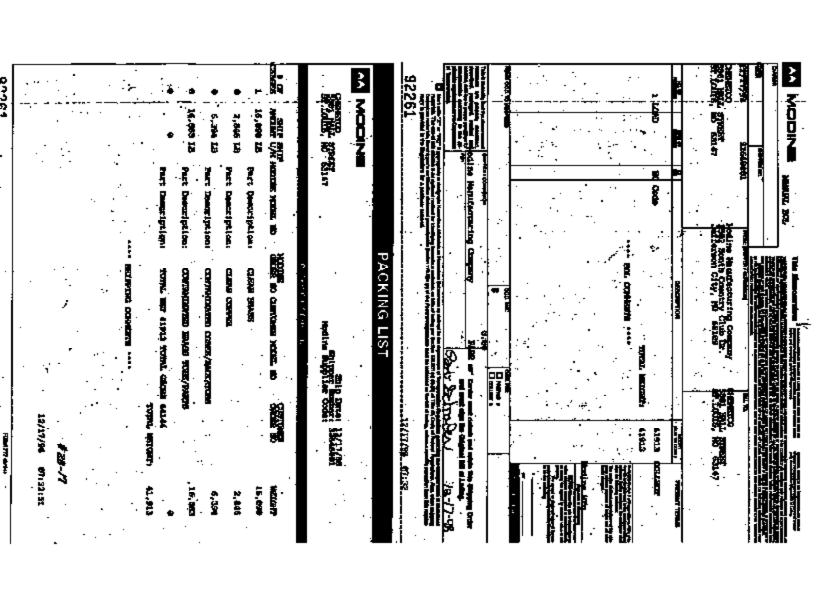


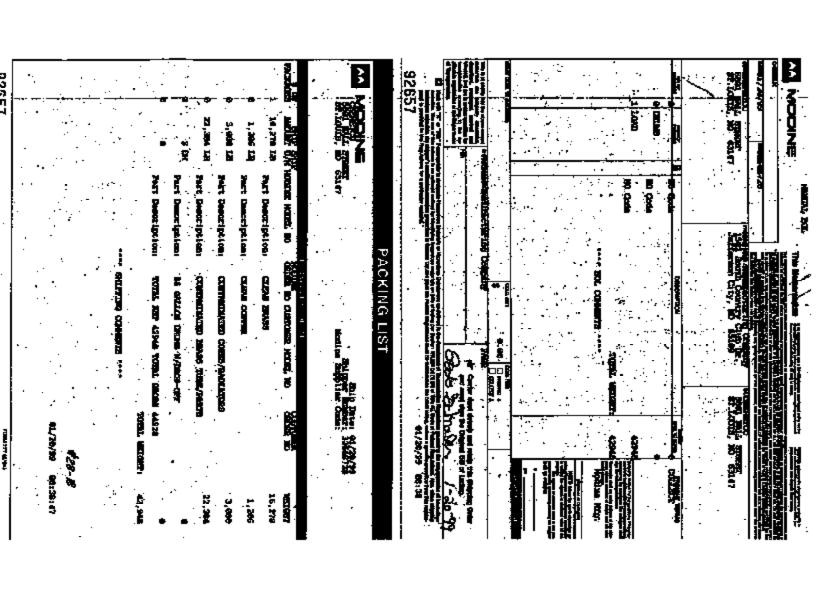


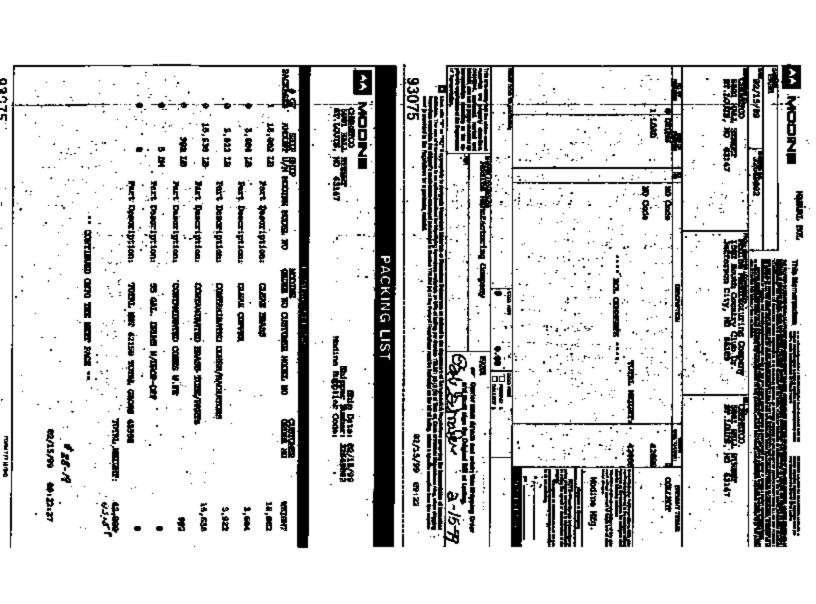


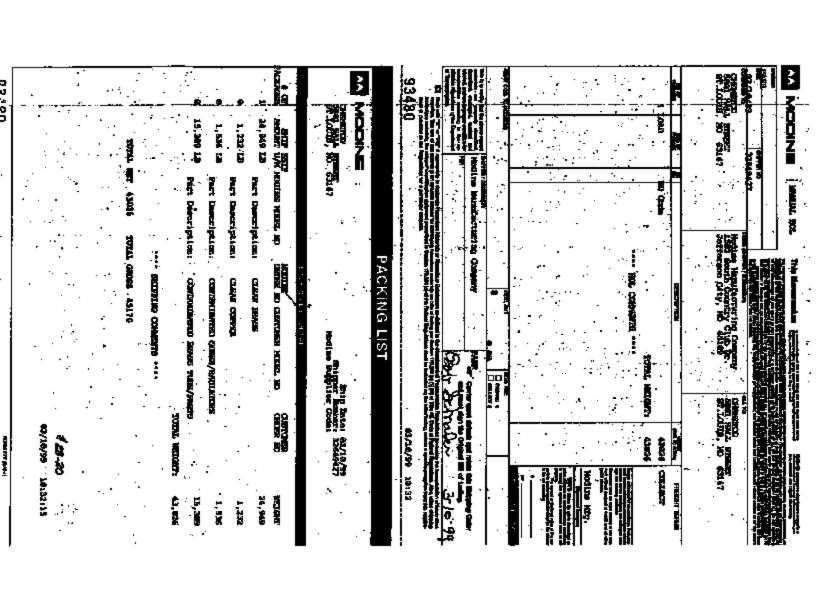


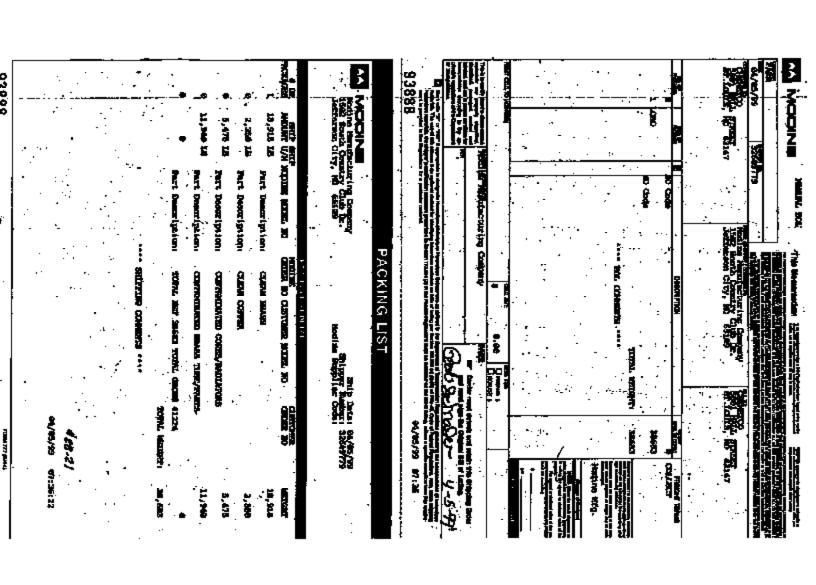


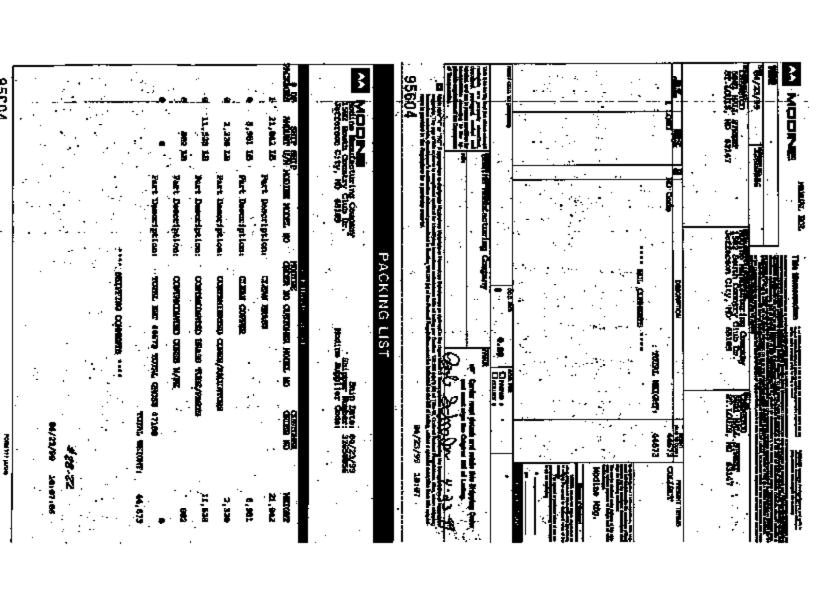


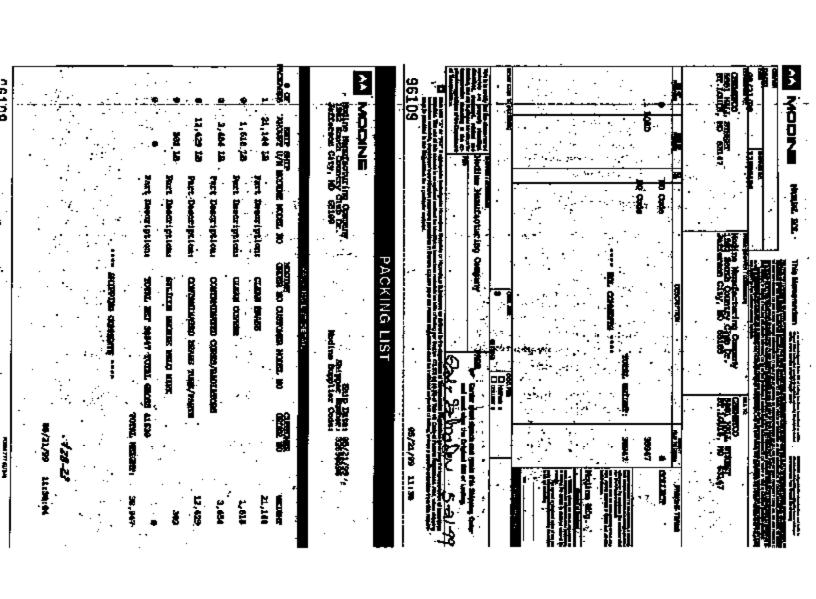


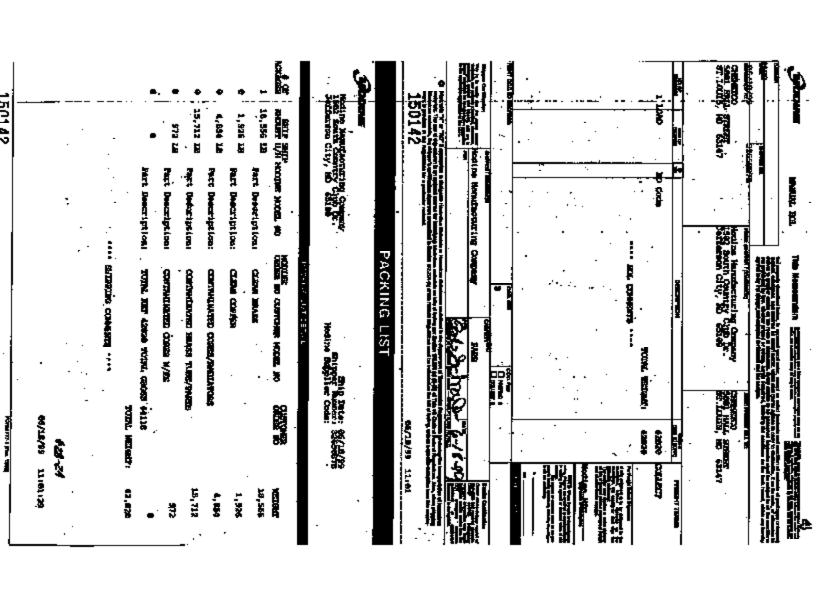


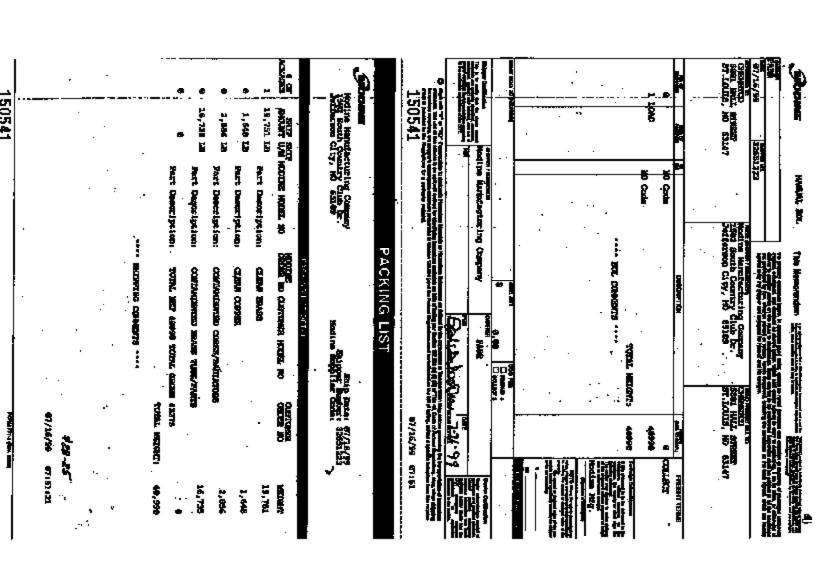


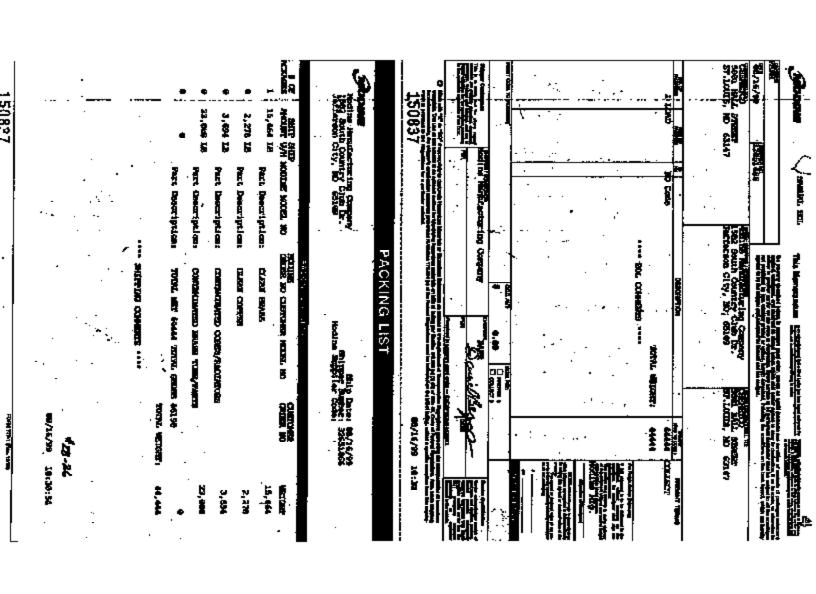


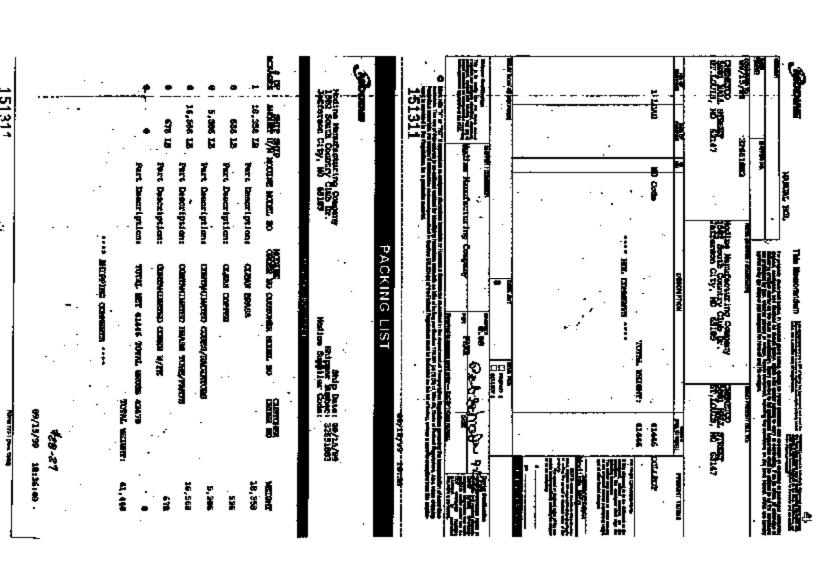




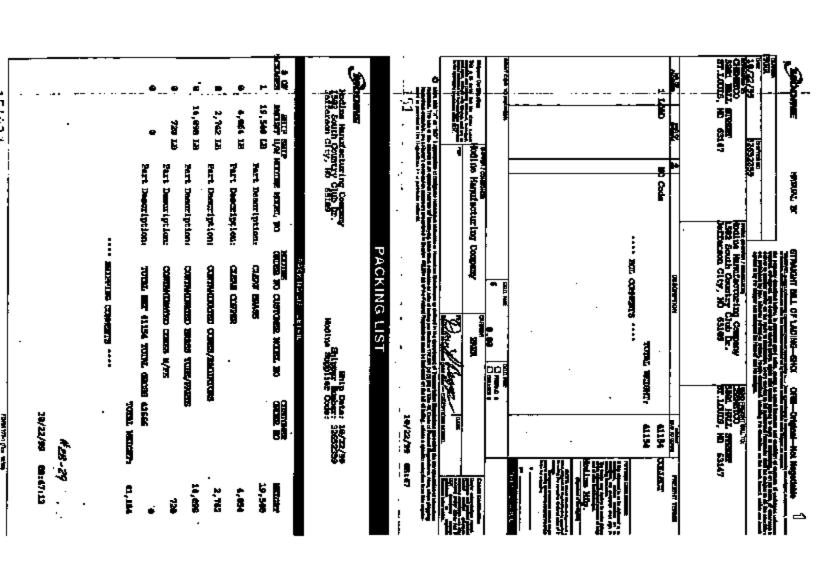


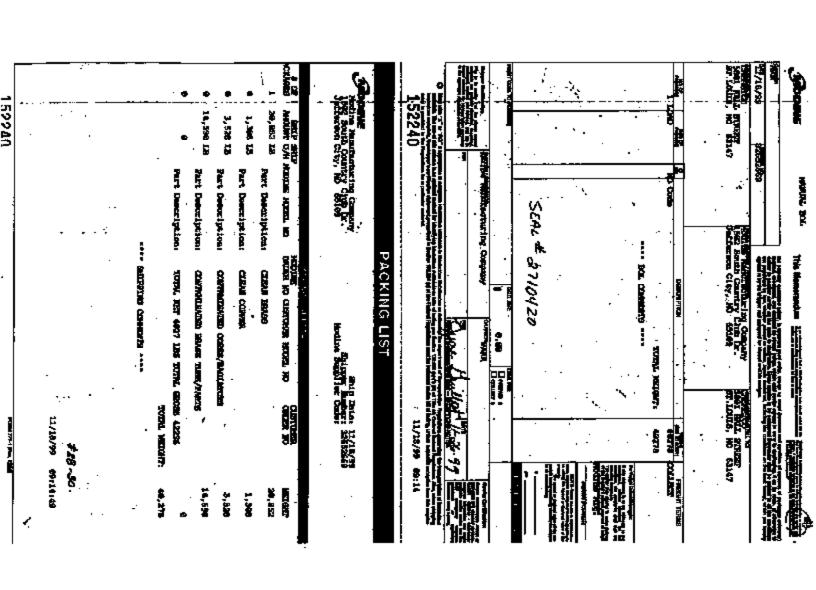


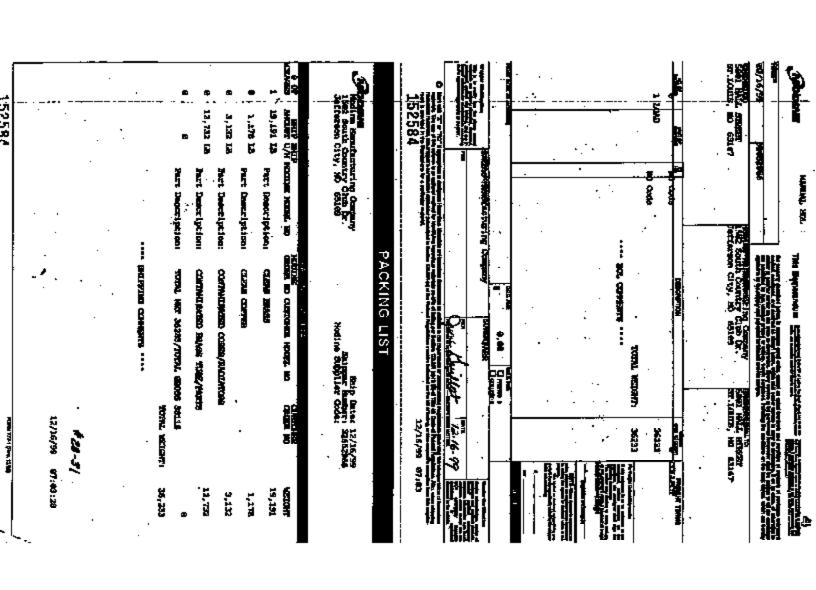


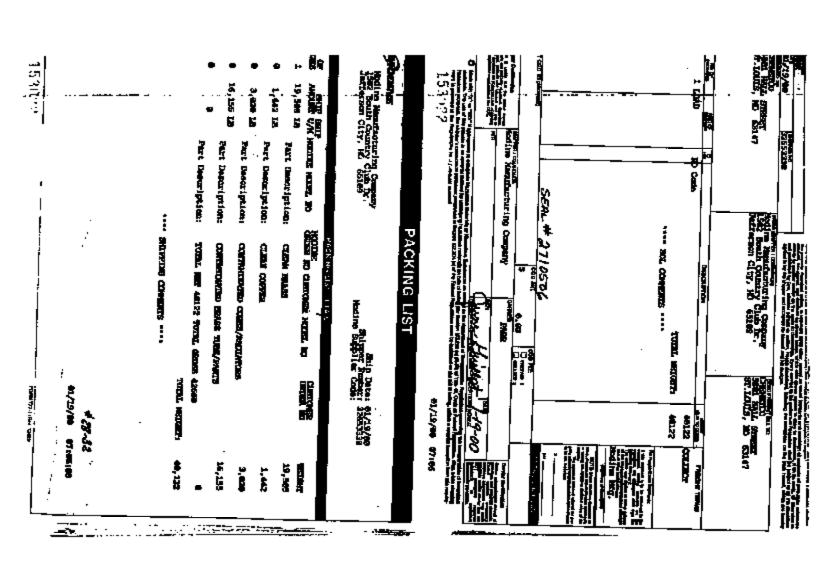


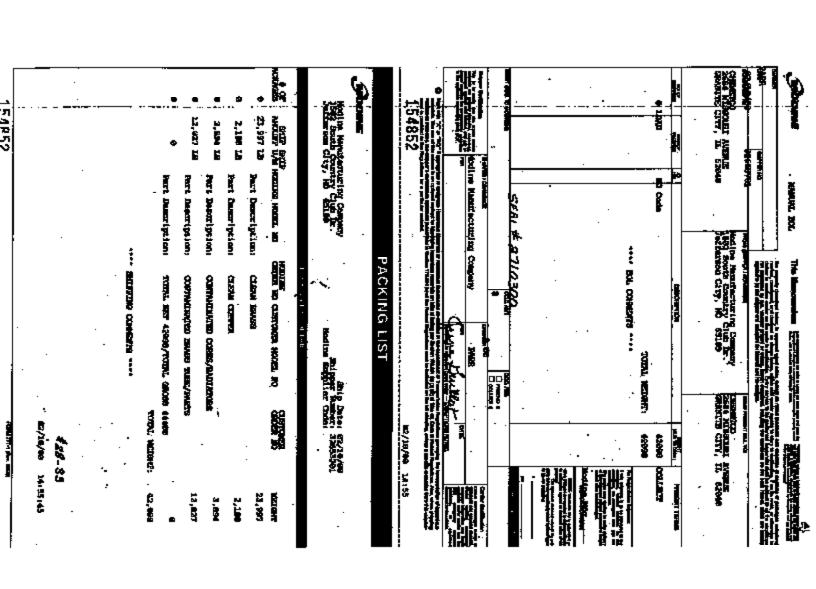
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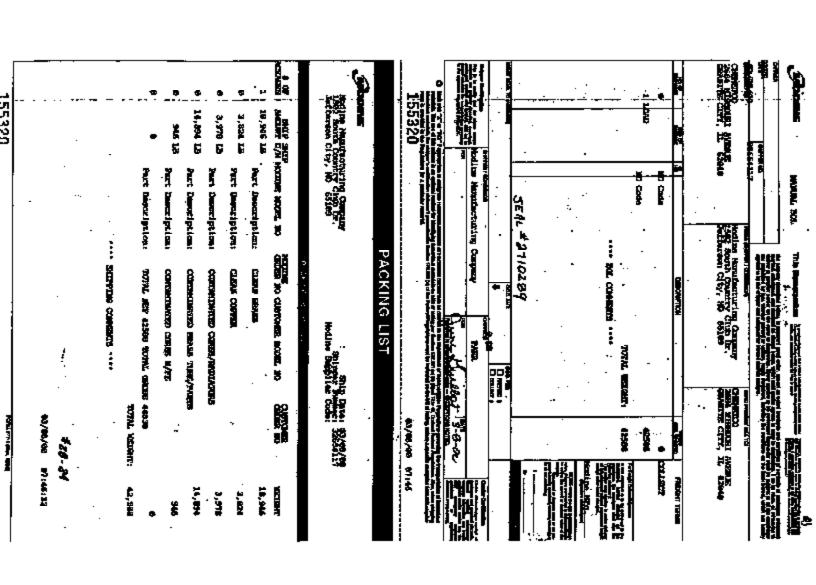


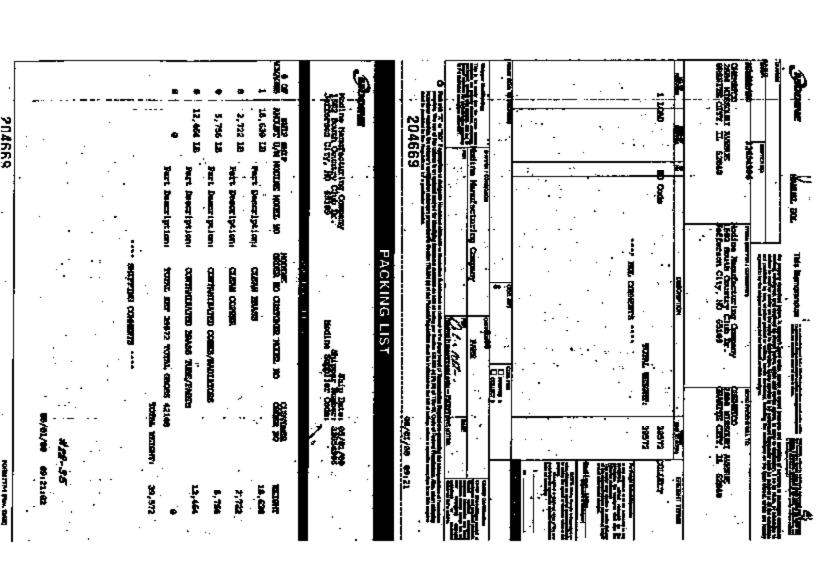


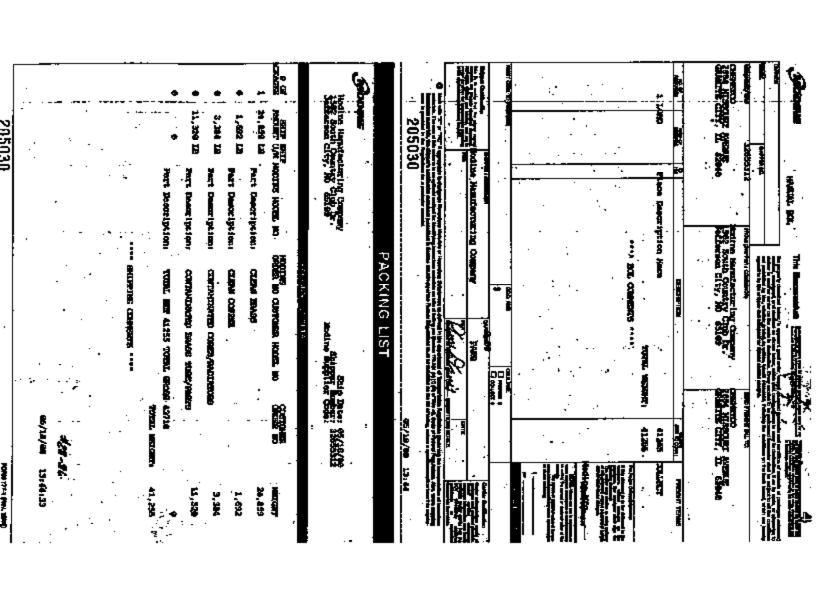


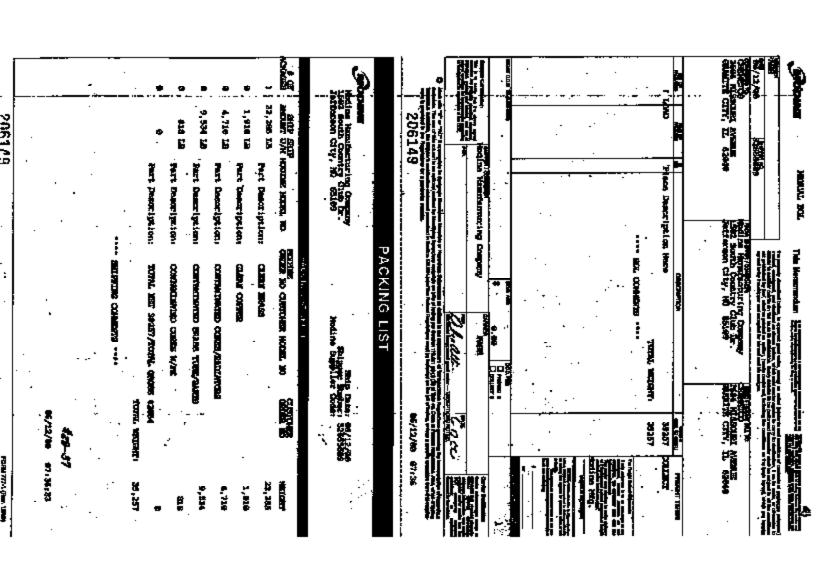


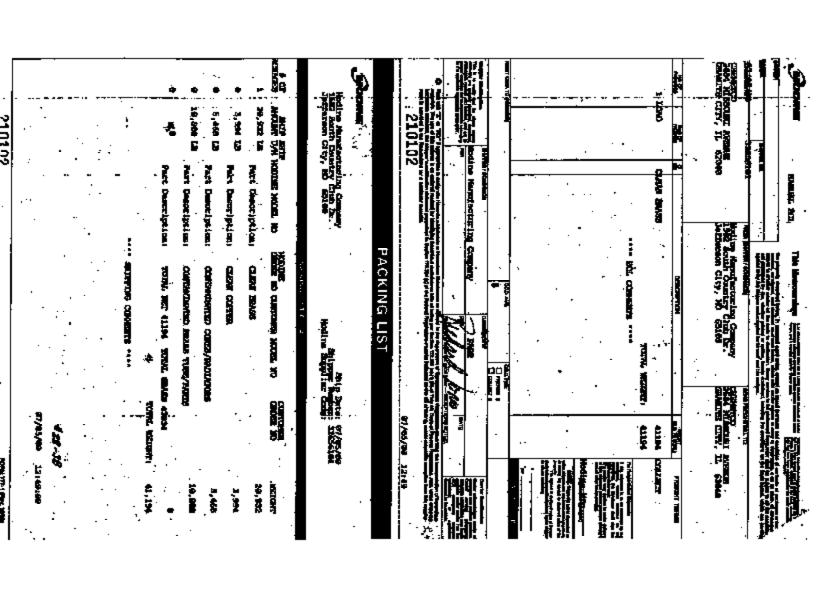




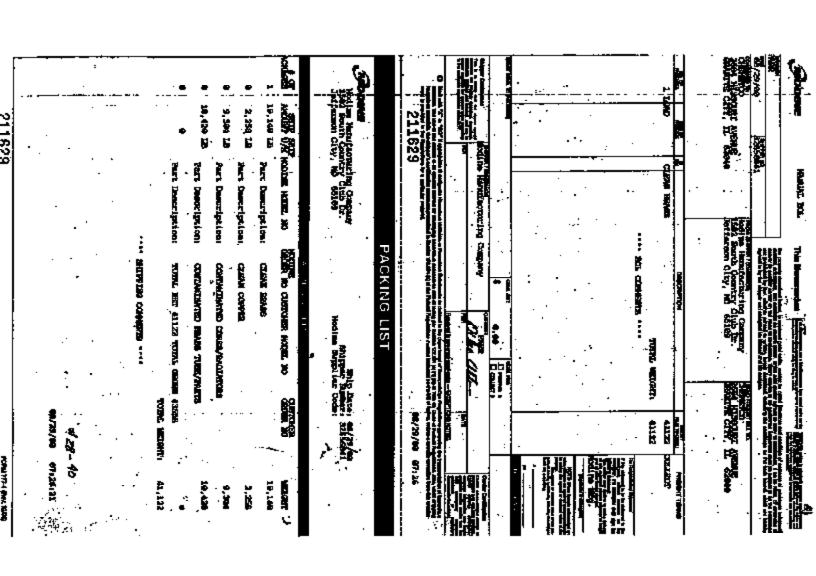






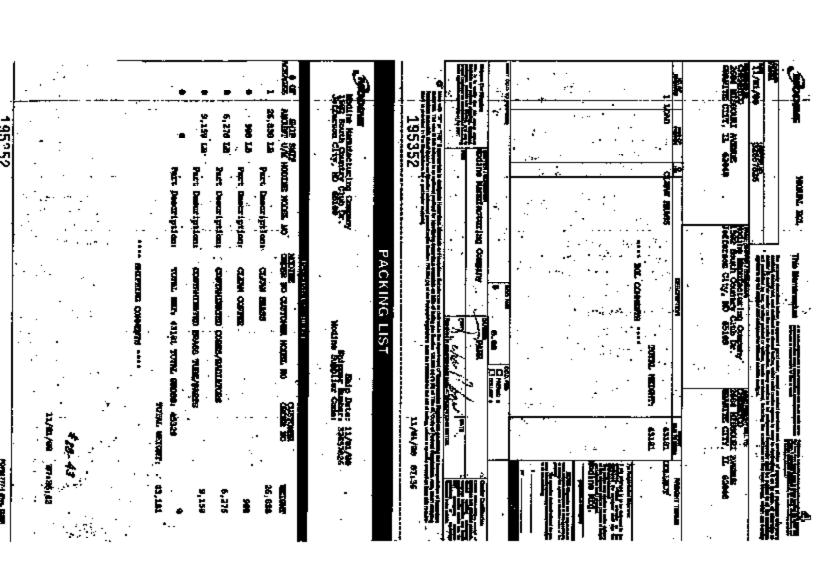


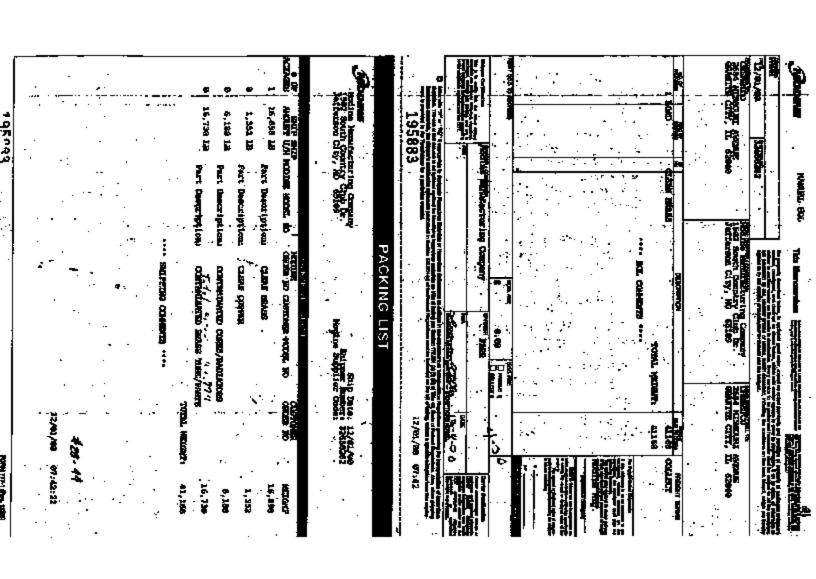
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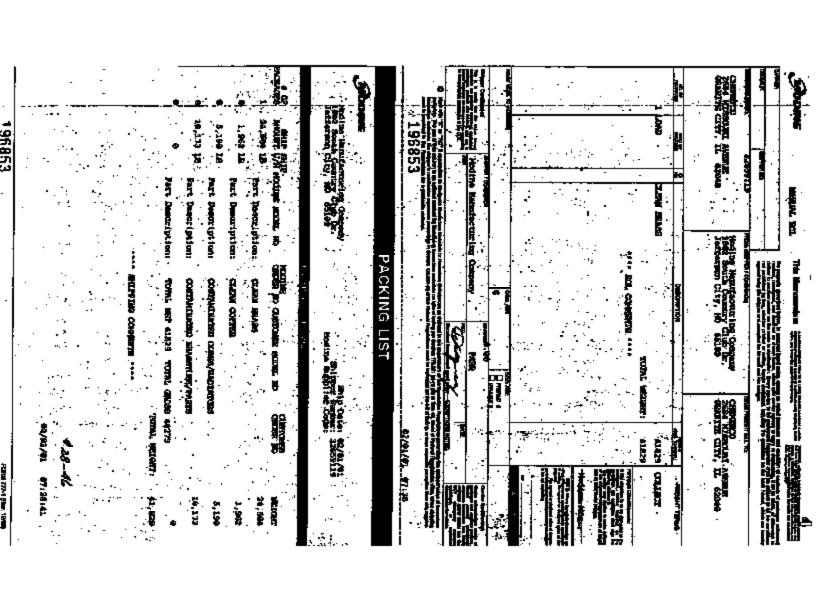
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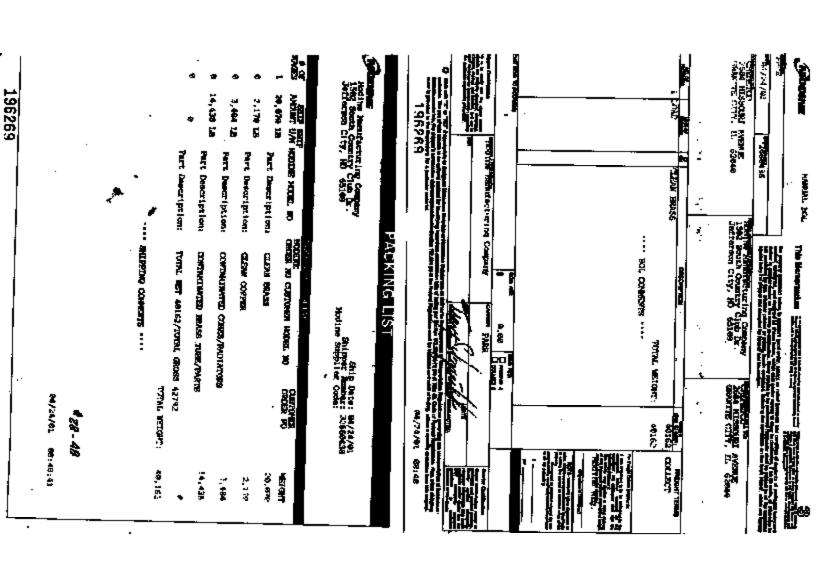




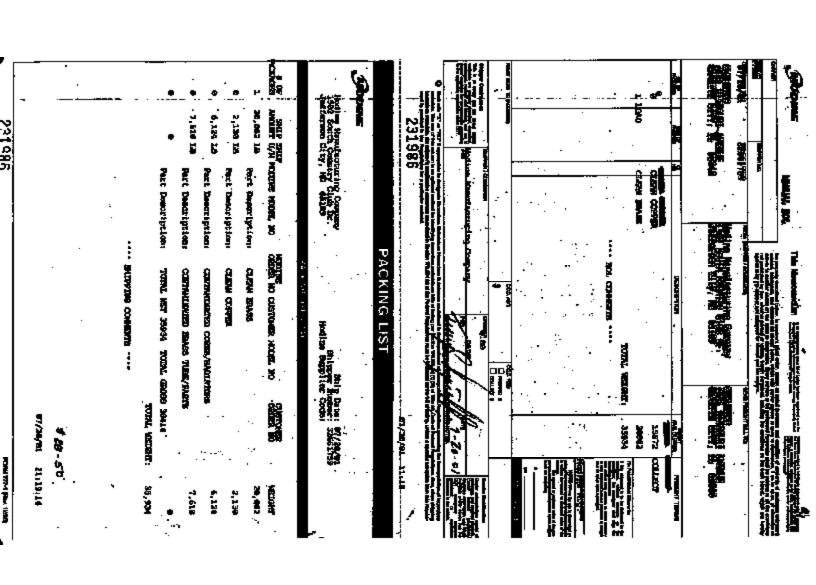
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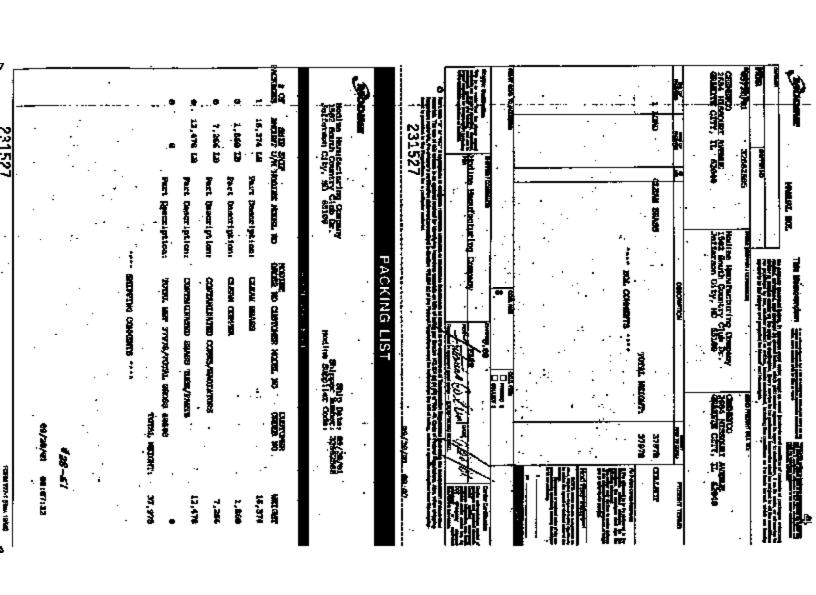


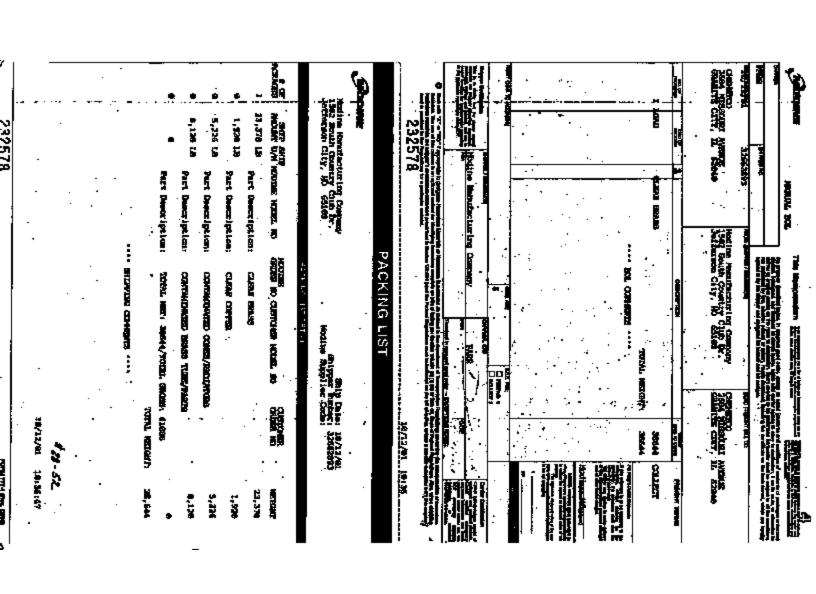
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G/15/1998	23,669	45393, 46383, 45309, 44861, 44933, 45242
7/14/1998	10,537	46030, 45908, 46011
7/24/1998	4,860	45851, 45599
7/24/1998	4,904	46891, 45764
7/24/1998	761	32246120
8/10/1998	5,434	32246285, 48275, 46281
6/24/1996	3,381	46394, 46393
10/14/1998	16,423	46860, 46852, 46689, 46625
11/12/1998	19,901	47168, 47081, 48967
11/25/1998	8,423	47219
12/22/1995	10,031	47402, 47453, 47516
2/1/1999	16,792	47823, 47802, 47745, 47689, 47591
2/16/1999	5,548	47926
3/31/1999	3,985	48290, 48221
3/31/1999	7,023	46399, 48340
4/29/1999	4,058	32248521
5/12/1999	14,068	32248822, 32248798, 32248725, 32248647, 32248571
5/20/1999	2,562	48873, 48867
5/25/1999	5,219	48936, 48920
6/8/1994	3,008	48969, 49111
6/18/1999	10,441	49224, 49223, 49154
7/30/1999	12,881	49598, 49680, 49454
B/B/1999	8,261	49651, 49845
8/27/1986	10,920	49825, 49803
9/29/1994	3,692	50073, 49964
11/12/1999	21,138	50415, 50362, 80259, 50191
11/12/1999	8,418	50511, 50452
12/22/1999	28,120	50788, 50754, 50710, 50853, 50623, 50555
2/21/2000	14,204	51127, 50917, 51011, 51079
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INVOICE NUMBER: 32245852

DATS: 05/15/98

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Modine Manufacturing Company 1500 Delkoven Avenue Racine, WI 53403

Tax ID # 39-0482000

CRESTSTED 2684 MISECURI AVE GRANITE CITY IL FILED BANKRUPICY 4506 62040 B 15465000 и симпецео 1 2684 MISSOURI AVE HENIT-TO: HODDER HEG. COMPANY

PO POE 75234

P SEASITE CITY IL CHARLOTTS NC 26275-0234

FILED RAMERUPTCY 450E 62046

Customer Account: 15465000

State: 36 Payment Terms: Net 30 Days

Remarks:

Rep No: 2022

Rep Order: 25254

Date Shipped \$ 96/15/98 . \* Ship Vis:

B/L: 322046862

Pro

PUB Point: JOPLIN, NO 64801

Preight Terms: Prepaid

Gross Weight:

Modine Cust Purchase Order Modine Model NO. Accr Quatomer Fast 80. Description

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**Shipped** 

Quantity

Unit Price

Extension

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15,526.86 SCRAP BRASE 32225254 Modine Zev Costoner Per:

NET HEIGHT 28,865 188, VER SETTLEMENT REPORT REFERENCE B/L'S 45392, 45383, 45309, 44861, 44932, 6 45242

Total Due

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INVOICE \*\*REPRINT\*\* INVOICE NUMBER: 32205084 DATE: 07/14/58

P947B: 1

Modine Manufacturing Company 1500 Dekovan Avenue Racine, WI 53403

Tex 10 # 29-0482000

Customer Account: 13463000

Payment Terms: Net 30 Days

Rep No: 8022 Rep Order: 25386

State: 26

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CHEMITTCO 2644 HISSOURI AVE GRANITE CITY II.

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1 2584 MISSOURI AVE P GRANCITE CITY IL

PILED BANKEUPTCY 4506 62040

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Date Shipped: 07/14/58

Ship Yia: B/L: 322046084

Pro

MODINE MPG. COMPANY

REMIT-TO:

PO NOX 75734

CHARLOTTE NC 28175-0234

FOR Point: JOPLIN, NO 64801

Preight Terms: Collect Gross Weight:

Modine Cust Durchese Order Modine Hodel NO. Customer Part NO. Description

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Order

Modine Shipped

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Total Dun

\$6,100.92

Extension

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NET WEIGHT 4,850 LBS. PER SETTLEMENT SEPORT REFERÈNCE B/L'8 45651 € 45599

Modine Cust Purchase Order Modine Model NU.

Acct Costoser Part NO. Description

Total Due

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INVOICE \*\*REPRINT INVOICE MANNER: 32246188 DATE: 07/24/98

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Modine Manufacturing Company 1500 Deligwes Avenue Macine, WI 53403

Tax 10 # 39-0482000

Customer Account: 15465000

Payment Turns: Bet 30 Days

Rep Ho: RG22

State: 26

Remarks:

Rep Order: 25414

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CHARLOTTE MC 20275-0234 FILED MANKEUPTCY 4505 62040 T

Date Shipped: 07/24/98 Ship Via:

B/L: 323046188

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FOR Point: JOSLIN, MG 64801 Freight Terus: Prepaid

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Order Quantity Omit Price Extension

32225414 1 3,149.95 3.149.95 Modine Rev Customer Rev:

\$3,149.95

1500 Defeven Avenue Racine, WI 93463 Tax ID # 39-0482000

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GRANITE CITY IL

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Customer Account: 15465000 Date Shipped: 07/24/98 Rep Mo: R022 Ship Vis: Rep Order: 25415 B/L: 322046189 State: 26 Pro: Payment Terms: Net 30 Days

FOR Point: JOPLIE, NO 64801 Freight Terms: Prepaid Gross Weight:

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INVOICE NUMBER: 32246190

DATE: 07/24/98 PAGE: 1

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PILED BANKEUPTCY 4506 62040

Tex ID # 39-0482000

Racine, WI 53403

2684 MISSOURI AVE

CHANTTE CITY IL

Customer Account: 15465000

Payment Terms: Not 30 Days

Rep No: 14022

Remarks:

Rep Order: 25416 State: 26

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REMIT-TO:

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Date Shipped: 07/24/98

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POB Point: JUPLIE, NO 64801 Freight Terms: Prepaid

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Modine Shipped

Order

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Modine Manufacturing Company 1500 Deliceran Avenue

Racian, WI 53403

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D CHARLES CITY IL

REMIT-TO: MODINE NEG. COMPANY

> PO BOX 75234 CHARLOTTE MC 28275-0234

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Date Shipped: 08/10/55 Ship Via:

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POB Point: JOPLIN, NO 64861

Freight Terms: Collect

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MODINE REG. COMPANY

CHARLOTTE NC 28275-0234

POB POINT: JOPLIN, NO 64601

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Modine Remifacturing Company

1500 Delloven Avenue Bacine, WT 53403

Tax ID 4 39-0482008

8 15465000 CERTIFICATION OF THE PERSON OF ь симито

2694 MISSOURI AVE 1 2684 NISSOURI AVE P GRANITE CITY IL GRANITE CITY IL

PILEE BANKSUPTET 4506 62040 PITED BANKBUPTCY 4506 62040

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Date Shipped: 08/34/98

Ship Vie:

B/1: 322046440

Pro

Modine Shipped

Modine Cost Purchase Order Modine Model NO. Acct Customer Part 20. Description Order Quantity Unit Price Extension

32201 OCRAF BRASE 32225522 1,957.60 1.957.60 1

Medine Zevi Contoner Reva

MET NEIGHT 3,301 LBS. FER SETTLEMENT SEPORT

REFERENCE B/L 46394 & 46291

Customer Account: 15465000

91,957.60 Total Dua

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Remarks:

Arct Customer Part 80. Description

Rep Mo: 2022

Rep Order: 25691

32201 33901

INVOICE \*\*REPRIME\*\* INVOICE MINURE: 32245935 DATE: 10/14/58

PAGE: 1

Modine Manufacturing Company 1500 DeKoven Avenut

Racine, WI 53403

Tax ID # 39-0462000

CYMMETCO 2684 MISSOURI AVE GRANITE CITY IL

Customer Recount: 15459000

WILED RANGEMETER 4506 62040

\$ 15466000

ь сививсоо i 2684 HISBOURI AVE

P GRANTER CITY IL

FILED HANKRUPTCY 4506 62040

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Date Shipped: 10/14/98

Ship Via: B/L: 222046935

Pro-

POS Point: JOYLER, NO 64801

CHARLOTTE NC 28275-0234

Freight Terms: Collect

Gross Weight:

REMIT-TO:

PD BOX 75234

NODINE NPG. COMPANY

Modine Cost Furchase Order Modine Model NO. Rodine Shipped

Order

Quantity

Unit Price

32235691 9,279.00 1

Modine Hev: Omtomer Rev:

NET MEDGET 16,423 LES PER SETTLEMENT REPORT REFERENCE B/L 46860, 46852, 46689, 4 46625

Total Dum

SCHAP BRASS

\$9,279.00

Strangios

9,279.00

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m Rep Order: 19879 Z. State: 26 Payment Terms: Fet 30 Cays Armarka:

INVOICE

\*\*BEPEINT\*\*

INVOICE NUMBER: 32347242 DATE: 11/12/98

PAGE: 1

Hodine Rammfacturing Company 1500 Dakoven Avenue Racine, WI 53402

Tax ID # 39-0482000

Customer Account: 15465000

Rep No: 2022

Rep Order: 19879

CHESTETON 1684 MISSOURY AVE GRANITE CITY IL

FILED EMPREOPTCY 4506 62040

8 15465000 **b** снюстсо

1 2684 KI990URI AVE P GRAVITE CITY IL

CHARLOTTE NC 26275-0234

FILED HANKEUPTCY 4506 62040

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Date Shipped: 11/12/98

Ship Via: B/L: 322047242

Prog :

POB Point: JOPLIN, NO 64801

Freight Turms: Collect

NUMBER OF COMPANY

Gross Weight:

PROUT-TO:

PO BOX 75234

Modine Cust Purchase Order Rodine Model MO. Modine Ehipped Acct Customer Part NO. Description Order Omentity Unit Price **Extension** 

32301 SCRAP BRASS 32225679 1 6,311.68 6,311,68 33901 Modine Rev: Customer Nev:

MET WEIGHT 10,901 LEG PER SETTLEMENT REPORT REFERENCE B/L 47189, 47881, 4 46987

Total Due \$6,311.68 Modine Manufacturing Company

FILED BANKRUPTCY 4506 62040

1500 Dekoven Avenue Accine. WI 53403 Tax ID 0 39-0482000

2664 MISSOURI AVE

GRAHITE CITY IL

CHRONETCO

Customer Account: 15465000

State: 26 Payment Terms: Set 20 Days

Remarks:

32201 33501

MET WEIGHT 8,423 LBS PER SETTLEMENT REPORT REPERENCE B/L 47219

Pro:

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Modine Cust Purchase Order Rodine Model RO. Acct Customer Fort NO. Description

Order SCRAP WEARS

Quantity

Modine

1 4,876.91 Customer Rev:

Unit Price

\$4,876.91

Extension

4,876.51

Date Shipped: 11/25/98

1 2664 NIEBOGRI AVE

FILED BANKEUPTCY 4506 62040

P GRANITE CITY IL

TWOIGH

5 15465000

6 CHESTO

FOR Point: JOPLIN, NO 64901 Bhip Vie: Freight Tarma: Collect B/L: 322047284

\*\*BEPRENT\*\*

Gross Weight:

ROCKT-TO:

PO BOX 75234

HODINE MFG. CONTANT

CHARLOTTE NC 20275-0234

Shipped

32225960 Modine Rev:

Total Due

INVOICE NUMBER: 32247384

DATE: 11/25/58

PAGE: 1

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**2**012/037

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Acet Customer Part MD. Description
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32201 33901

DAVOICES \*\*\*\*\*\*\*

INVUICE NUMBER: 32247595 DATE: 12/22/98 PAGE: 1

Modine Manufacturing Company 1500 Delloven Avenue Aecine, WI 53403

Tax ID # 35-6482000

Customer Account: 15465000

Pap No: R022

State: 26

Remarks:

Rep Order: 26076

CHEMISTON 2684 RIBSCURI AVE GRAMITE CITY IL

PILED BANKEUPTCT 4505 62040

8 154650ED h commerces 1 2684 MISSOURI AVE

P GRAFITE CITY IL

FILED BANKRUFFCT 4506 62040 T o

Date Shipped: 13/22/98 Ship Via: B/L: 122047595

Pro:

FOR Point, JOPLIN, MC 64801 Freight Terms: Collect

HODINE HING. COMPANY

CHRELOTTE NO 28275-0234

Gross Weight:

ABOTT-TO:

PO BOX 75234

Shipped Modiina

Ordec Quantity Unit Price

32226076 5,246.21 1 Modine Rev: Customer Rev:

MET WEIGHT 10,031 LBS. PER SETTLEMENT REPORT REFERENCE B/L 47402, 47453, £ 47516 Total Due

SCHAP BRASE

Modine Cust Purchase Order Rodine Model NO.

\$5,246.21

Detension

5.246.2L

INVOICE \*\*REPRINT\*\* INVOICE MINUER: 12247875 DATE: 02/01/59 Modine Manufacturing Company PAGE: 1

Racine, NI 53403 Tex ID # 39-0482000

1500 Dalloven Avenue

В 1 CHIPETCO 2684 RIBBOURT AVE 1 1 GERMANIE CITE IL PILED BANKKUPICY 4506 62040 T

8 1546E000 P CERMENCO 1 2604 NISSOURI AVE

Date Mhipped: 02/01/99

MERCET-10: NUMBER AFG. COMPANY PO BOX 75234

POS Point: JOPLIN, NO 64801

Freight Terms: Collect

P MEANITE CITY IL CHARLOTTE NC 28275-0234 PILED BANKEUPTCY 4506 62040

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Ship Via:

B/L: 322047875

Customer Account: 15465000 2ep No: 4022 Rep Order: 26181 State: 25 E State: 25 Payment T R Retarks: State: 25

Payment Terms: Est 30 Days

Modize Cost Purchase Order Modine Model NO.

Acct Customer Fart 10. Description

Modine Shipped Order Quantity

Unit Price

Gross Weight:

**Actension** 

32201 BURAP BRASS 32225161 ı 9,017.30 33901 Modine Rev. Costoner Ray:

NET WEIGHT 16,793 LEG. SEE SETTLEMENT REPORT PERMITTIES B/L 47823, 47802, 47745, 47680, 6 47591 Total Due

59,617.30

9,017.30

Modina Manufacturing Company

PILED BAROGUPICE 4506 E2040

1500 Delloven Avenue Racine, WI 53403 TEX ID # 39-0462000

2684 NIBSOURI AVE

CENTITE CITY IL

CREMETOS

Customer Account: 15465000

Payment Terms: Not 30 Days

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Recentles:

Modime Coat Purchase Order Modime Nodel 10.

32201

33901

Rep No: 2022

State: 26

Rep Order: 26261

##F###### B/L 47926

MET MEICHT 5,546 LBS. PER SETTLEMENT REPORT

Acot Customer Part NO. Description

(NOTE: INCLUDES PRICE ADJUSTMENT FROM LAST SETTLEMENT REPORT)

Total Dun

SCRAP BRASS

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INVOICE MINNER: 34247993 DATE: 02/16/99

PAGE: 1

INVOXCE

8 15465000 KERTT-TO: P CHEMELCO NODINE MPG. COMPANY

1 2684 MISSOURY AVE PO BOX 75234

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P CRAWITE CITT IL CHARLOTTE NC 18279-0234

FILED BANKSOFFCT 4506 62040

Date Shipped: 02/16/59

Modine

POS Point: DOPLIN, NO 64801 Ship Via: Preight Terms: Collect

B/L: 322047993 Gross Waight: Proc

Shipped

Oxder Quanticy Unit Price Extension

32226261 1 2,420.49 Modine Rev: Customer Rev.

\$2,220.69

2.520.69

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CREDIT MEMO \*\*PERRINT\*\* CREDIT FUND NUMBER: 39248113 DATE: 02/25/99 PAGE: 1

RENIT-TO:

Tex ID # 39-0482000

1500 DeRoven Avenue Racipe, WI 53403

Modine Manufacturing Company

4020700 2684 NIBSCURI AVE CHANTLE CLTY IL PILED BANKEDPTCY 4505 62040 8 15465000 Р сархивас

HODINE NEG. COMPANY 1 2684 NISSOURI AVE PO BOX 75234 P GRAWITE CITY IL CRARLOTTE NC 28275-0234

PILAD BANKRUPTCY 4506 62040 Ţ

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Date Shipped: 02/25/55 Ship Via: B/L: 322048112

FOR POINC: JOPAIN, NO GERGI Preight Texms: Collect Grass Weight:

Prot

Modice Cust Forthage Order Modine Model NO. Modine Shipped

Acct Customar Part NO. Description October Quantity Unit Price Extension

19802 SCRAP PRASS 12226324 -1 2,920.69 -2,820.69 20002 Customer Rev: Modine Nev:

TO CORRECT ACCOUNT CODES OUR RECORDS ONLY

Customer Account: 15465000

Payment Torns, Not 30 Days

Rep No. 8022

State: 26

Remarks:

Rep Order: 26324

Total Credit 9-2,820.69 В

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INCICE \*\*REPRINT\*\* INVOICE MINUSER: 34246114 DATE: 02/25/99 PAGE: 1 Modine Manufacturing Company 1500 Delinven Avenue Bucine. WI 53403

Tax ID # 39-0402000

CHRETCO 2684 MISSOURI AVE GRANITE CITY IL FILED HANKBUFFCT 4506 62040

\$ 15465000 A CHEMETOD

1 2664 NISSOURI AVE P GRANITE CITY IL FILED HANGEDPICE 4506 62040

RESETT-TO: RODING MPG. CUMPANY 20 BOX 75234

CHARLOTTE NC 20275-0334

Date Shipped: 02/25/99 Ship Via: B/L: 322048114

POB Point: JOPLIN, NO 64801 Freight Terms: Collect Gross Weight:

Pro:

Modine Cust Purchase Order Modine Model NO. **Sodine** Shipped Quantity Unic Price Extension Customer Part NO. Description Order Acct 32226325 2,020.69 2,820.69 1 1560Z SCRAP BRASS Modine Rev: Quatomer Rev: 33901

TO COMPACT ACCOUNT COMES OTH ENCOREDS ONLY

Customer Account: 15465000

Rep Mg: R022

State: 26

Xep Order: 26325

\$2,620.69 Total Due

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CHENTY MENO: \*\*REFERENT\*\* CREDIT FERIO NUMBER: 32248347 DATE: 03/22/99

PAGE: 1

Modine NameEacturing Company 1500 Colkeyan Avellue Racine, WI 53403

Tax 12 # 39-0492000

CHEST 100 2684 KIRBUUKI AVE GRANITE CITY IL PILED BANKEUPTCE 4506 62040 8 15465000 h competico 1 1604 MISSOURI AVE

P GRANCTE CITY IL

HHAIT-TO: NODTRE NEG. COMPANY PO ROX 75234

CHARLOTTE NC 28275-0234

FOR Point: JOPLAN, MO 64861

Preight Terms: Collect

Gross Weight:

FILED BANKSUPICY 4506 62040

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Customer Account: 15465000 Date Shippe4: 03/22/59 ship Via: Rep No: 2022

B/L: 322048347 Rep Order: 25468 PZO:

State: 26

Payment Turns: Set 30 Days

Bemarke:

Mexima Cust Parchage Order Rodine Model NO. Acct Customer Part MO. Description

Modice Order

Bhipped Quantity

Unit Price

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-2,820.69

32226488 2,820.69 -1 19902 SCHAP BRASS Rodine Rev: Customer Rev:

33501

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PE-INVOICE

\$-2,820.65 Total Credit

Modine Manufacturing Company

FILED BARKEUFTCY 4506 62040

1500 DeKayen Avenue Recting, NI 53403 T4x ID # 35-0482000

2684 MIRECURI AVE

STRANGTE CTTY IL

CHELLINGS

Customer Account: 15485000

Rep Ma: 2022

Rep Order: 16489

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TO CORRECT ACCOUNT CODES

Modine Cust Purchase Order Roding Nodel NO.

Order Conntity

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Shipped

7,820,65 Customer Hev;

Unit Price

2.820.69

Extension

\$2,830.69

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INVOICE MANAGER: 22246348 DATE: 03/22/99 PAGE: 1

8 15465000 ABOUT TO

h CHRICTCO MODINE MPG. COMPANY 1 2604 MISSOURI AVE

NO BUE 75234 P GRANITE CITY IL

CHARLOTTB NC 28275-0234

FILED EXHIBITOR 4506 62040

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Date Mhipped: 03/32/99

FOR Point: JOPLIE, NO 64901 Ship Vie: Freight Terms: Collect

B/L: 322048348

Gross Weight:

Pro:

Payment Terms: Ret 30 Days

Acet Customer Part NO. Beautiption

Total Due

SCHAP BRASS

32226405 Modine Rev:

Modine

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Payment Taxes: Not 10 Days Remarks :

32201 33901

IMMOICE vrBEbäläåvı INVOICE MINDER: 32248472

Tex ID 4 39-0482000

Customer Account: 15469000

Rep No: 11022

Rep Order: 26514

1500 Dekoven Avenue Recine, WI 53403

CHESTS TOO 2684 MISSOURI AVE GRAFITE CITY IL

Modine Manufacturing Company

FILED BANKEUPTCY 4506 62040

8 15465000 h свичетсо

1 2684 MISSOURI AVE

P GRANITE CITY IL FILED BANKEUPICY 4505 62040

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Date Shipped: 03/31/99 Ship Via:

B/L: 322048472

Pro:

CHARLATTE NC 28275-0234

DATE: 03/31/99

2,000.74

PACE: 1

FOR Point: JOPLIN, NO 64801 Freight Texms: Collect

Gross Medght:

EBILT-TO:

PO BOX 75234

MODING MPC. COMPANY

Modine Cust Purchase Order Modine Model 80. Modine Shipped Acot Customer Part NO. Description.

Order Quantity Unit Price Extension

32226534 1 2,000.78 Modine Rev. Customer Rev:

NET WEIGHT 1,865 LAS. PER SETTLEMENT REPORT REFERÊNCE B/L 48290 & 46221

SCRAP HEASS

Total Due 92,000.78

\$217773008 08:23

INVOICE \*\*BEDBIBLE\* INVOICE MONEER: 32248473 DATE: 01/31/99

MODICATE TAPE. COMPANY

CEARLUTTE NC 20275-0334

3,666.01

PAGE: 1

**Hodine Natural Coopery** 1800 Delioven Avenue Racine, WI 53403

Tax: ID # 39-0492000

Customer Account: 15465000

Rep Bo: RD22

Stater 26

Rep Order: 26535

CHEMIELCO 2684 MISSOURY AVE GRANITE CITY IL PILED RANKROPICY 4506 62040

S 15465000 A CHEMETCO

1 2694 KIBSCURI AVE p COMMITTS CITY IL PILMU BASERUPTCY 4506 62040

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Date Shipped: 03/31/99 Ship Via:

B/L: 322048473 Pro:

POS Point: JUPLIN, NO 64801 Freight Terms: Collect

Gross Velght:

PERMIT-TO:

90 BOX 75234

Modine Cost Furchase Order Modine Model NO. Modine. Ehipped

Quantity Order Unit Price Extension

32226535 3,666.01 Modine Revo

Contoner Rev:

SCRAF BRASE

MET WEIGHT 7,023 LBS. PER SETTLEMENT REPORT MEFERENCE B/L 48395 & 46340

Total Dun 83,666.01 Modine Hammfasturing Company

PILED BANKSUPICY 4506 62040

1500 DeXiven Average Recine, WI 53403 Tex ID # 39-0482000

2684 NUSSCOTRI AVE

GRANITE CITY IL

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SCHAD STARS

Costoner Account: 15465000 Bep No: 2022

CHEMETOD

Rep Order: 26675 State: 36

Payment Terms: Not 30 Days

1 2684 KISSOURI AVE

P CRAFITE CITY IL

Ship Via:

E 15465000

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FIG:

Date Shipped: 04/29/59

B/L: 322048761

FILED BANKEUPICY 4506 62040

Modine Shipped

Order Quantity Unic Price Extension

Gross Weight:

RHMIT-TO:

PO BOX 75234

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CHREATTE SC 28275-0234

FOR Point: JDPLIN, NO 64801

Preight Terms: Collect

32226679 1 2,009.07

Modine Ray: Customer lev:

MET MEXICET 4,050 LBG. PER GETTLEMENT REPORT REFERENCE OUR B/L 32246521

Total Dum \$2,089.87

INVOICE \*\*PERRINT\*\* INVOICE NUMBER: 32248761 DATE: 04/29/99

PAGE: 1

2,089.87

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Reservice:

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INVOICE \*\*\*\*\*\*\*\* INTOICE MODER: 32248865

8,004.65

DATE: 05/12/99 PAGE: 1

Modine Namufacturing Company

1500 DeKoven Avenue Macine, WI 53403

THE ID # 39-0482000

CHEMETOO

2664 NISSOURI AVE COMPLIED CITY IL

Casteser Account: 15465000

Payment Terms: Wet 30 Days

Rep No: 2022

State: 76

Rep Order: 26719

PILED BANKRUFFCT 4505 62040

\$ 15465000

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1 2684 KINSOURI AVE

p GEMETER CITY IL

CHARLOTTE DC 28275-0234 FILED MANKEUPTCY 4506 52040

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Date Hhipped: 05/12/99

Ship Via:

B/L: 322046865

Pro:

FUB Point: JOPLIE, NO 64851

Freight Terms: Collect

HISTING HPG. COMPANY

Gross Weight:

EEMIT-TO:

PO BOX 75234

Modine Cust Perchase Order Hodine Model NO. Modine Shipped

Customer Fart NO. Description Crder Countity Unit Price Exterator

32201 SCRAP BRASS 32226719 1 8,004.69

33901 Modine Rev: Customer Bev:

MET WEIGHT 14,058 189 PER SETTLEMENT

REPERENCE CUR. N/L 22246822, 32246798, 32246725, 32248647, 32248576

Total Due \$8,004.65

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32201

33501

MET WEIGHT 2,562 LBS PER SETTLEMENT REPORT MUNICIPAL CUR B/L 48673 4 46967

03/11/2008 00:14

Modine Manufacturing Company PACE: 1 1500 Delloven Avenue Racine, WI 53403 Tax ID # 39-0482000 8 154650D0 PERTY-TO: CREMETOO h CERTATO **МООЦИВ МРО. СОМРЯМУ** 2694 MISSOURI AVE 1 2684 MISSOURI AVE PO BOX 75234 P GRANITE CITY IL CRAMITS CITY IL CHARLOTTE NC 28275-0234 FIGED BARKEUPTCY 4506 62040 PILED BARRESPICT 4506 62040 Ţ ø Distance Account: 15465000 Date Shipped: 05/20/99 FOR Point: JORLIN, MD 54801 Rep No: 2022 Ship Via: Freight Turns: Collect Rep Order: 26927 B/L: 322046962 Gross Weight: Statu: 16 Pro: Payment Terms: Net 10 Days Reserks: Modine Cust Purchase Order Modine Model NO. Rodine Shipped Acct Customer Part NO. Description Order Duantity Unit Price Extension

32226927

Modina Rev:

SCRAP BRASS

Total Due

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INVOICE MACHEN: 12248952

1,497.78

Customer Rev:

1,457.7B

41,457.78

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DATE: 05/20/99

Modine Namufactoring Company

PILED BANKSUPTCY 4506 62040

1500 Delloven Avenue Racine, WI 53403 Tax ID # 39-0482000

2684 MISSOURI AVE

GRANITE CITY IL

CHEST CO

Customer Account: 15465000

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Payment Terms: Nec 30 Days

Penerks:

Rep No: 2012

Rep Order: 27038 State: 26

Hodine Cust Purchase Order Modine Model NO. Acot Customer Part NO. Description 32201

33901

SCRAP BRASS

34407038 Modine Rev:

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2,969.61

\$1,969.61

Extension

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INVOICE MANDER: 32249024 DKTE: 05/25/99

PAGE: I

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h chemerco 1 2684 HISSOURI AVE

INVOICE

P CHAPITS CITY IL

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FILED MARKEUPTCY 4506 62040 Ť

B/L: 322049024

Pro

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Ship Wir:

Date Shipped: 05/25/99

Modine Shipped. Order Quantity

Unit Price

RESELT-TO:

PO BOX 75234

NODING MEG. COMPANY

CHARLOTTE FC 26275-0234

FOR Point: JUPLIN, NO EARD1

Freight Terms: Collect

Srops Weight:

Customer Rev:

NET WEIGHT 5,219 LAS PER SETTLEMENT REPORT REFERENCE OUR B/L 48936 & 48920

Total Due

В

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Semarks :

Modine Cust Purchase Order Modine Model NO. Acct Customer Fart NO. Description

INVOICE \*\*REPRINT\*\* INVOICE NUMBER: 32249161 DATE: 06/08/95

PAGE: 1

Modine Manufacturing Company 1500 Dallovan Avenue Macine, WI 53403

Tax ID # 39-0402000

Customer Account: 15465000

Payment Terms: Met 10 Days

Rep Wor RO22

Btate: 26

Rep Order: 27086

CERTIFICO 2684 NISSURE AVE GRANITE CITY IL FILED BANGUPTCY 4506 62040 8 15463000 A DEMMERCO

1 2684 NISSOURI AVE

P GRANITE CITY IL FIRST BANKEUPTET 4506 62040

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Date Shipped: 06/08/99 Ship Vie:

B/L: 322049161

Pro:

POE Point: DOPLIN, MO 64861 Projekt Terms: Collect

Gross Weight:

REMIT-TO:

PO BOX 75234

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CEARLOTTE EC 28275-0234

Modiae Shipped Order Quantity **Voit Price** Extension

32201 SCHAP BRASE 32227086 1,462.94 2 1,482.94 33501 Modine Rev. Cuncomer Rev:

NET WEIGHT 2,000 LBS PER SETTLEMENT REPORT REFERENCE OUR B/L 48989 E 49111

Total Dus 91,482.94 B

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---INVOICE MORBER: 32249276 INVOICE DATE: 05/18/99 PACE: 1

Modice Manufacturing Company 1500 Delicen Avenue Macine, WI 53403

Tax ID # 35-0482000

Custower Account: 19465000

Payment Terms: Not 30 Days

Rep No: 3027

State: 26

Rep Order: 27125

h (MENUTO) CHIMITTO 2684 KISSOURI AVE i 2684 NISSOURI AVE CRAWITS CITY IL

VILLED BANKETIPTCY 4506 \$2040

\$ 15465000

PERIT-TO: NUDTHE MEG. COMPANY

P CRANITE CITY IL

FILED BANKRUPTCY 4506 62040

T •

Date Shipped: 06/18/99

Ship Via: B/L: 322049276

Fro:

FUB Point: JOPLIN, MO 64801

CHRILOTTE NC 28275-0234

Freight Terms: Collect

Gross Weight:

PO 90X 75234

Modine Cust Purchase Order Modine Model MO. Acet Customer Part MD. Description

**Xodine** <u> ೧೯೮೩ ಕ್</u>

Shipped Quantity

Unit Frice

5.293.59

32227125 5,293.59 SCHAP BRASS 32201 1 33901 Modine Rev: Cuetomer Rev:

MET WEIGHT 10.44) LAM PER SETTLEMENT REPORT REPERSON CE COR B/L 49224, 49221, & 49154

Total Due

65, 293.55

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THVOICE \*\*EEBBETHT\*\* INVOICE MIMBER: 32249639 DATE: 07/30/99

PAGE: 1

Modine Manufacturing Company 1500 DeKoven Avenue Racine, WI 53403

Tax ID # 39-0482000

Customer Account: 15465000

Payment Terms: Not 30 Days

Rep Ho: 4022

State: 25

Remarks:

Rep Order: 27274

CREMETOR 1684 KISSOURI AVE GRANITE CITY IL

PILED HANDRUPTCY 4506 62040

3 15465000 A CHRISTICO

1 2664 KISSOURI AVE D GRUNTIE CLIT IF

FILED HANKEMPTCY 4506 62040 T

o

Date Shipped: 07/30/99

B/L: 322049639

Pro;

FOR Point: JOPLIN, NO 64801 Ship Via: Fraight Terms: Collect

Gross Weight:

REMIT-TO:

PO BOX 75234

MODITUR MYG. CENTRANT

CHARLOTTE .BC 28275-0234

Modine Cust Purchase Order Hodine Model NO. Kodine Shipped Acct Customer Part NO. Description

Order Quantity Unit Price Extension

32202 SCHAP ERAGE 32227274 1 7,754.36 7.754.36

13901 Andine Rev. Customer Revi

NET REIGHT 12,861 LES PER SETTLEMENT REPORT REFERENCE CUR B/L 49596, 49560, 49464

Total Due 87,754.36 £

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Acct Customer Fart MO. Description

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INVOICE NUMBER: 22249698 INVELCE ++PEPPINT++ DATE: 08/09/99 PAGE: 1

ADGT-TO:

PO BOX 75234

Modine Manufacturing Company 1500 DeKoven Avamag Racine, NI 53403

Tex ID # 39-0492000

CHEMETOD 2684 NISCOURT AVE GUARITE CITY IL PILED BROKEWPICY 4506 62040

Ciptomer Account: 15055000

Payment Texas: Nat 36 Days

Rep No. 1022

State: 26

Zemerką:

Rep Order: 27278

3 15469000 ь сывится 1 1684 MCSSCURI AVE

p GRANITE CLTY IL FITARD BARKEUPTCY 4506 62040 Ŧ

Date Shipped: 08/09/99

CHARLOTTE NC 28275-0234

FOR Point: JOPLIN, NO 64801 Preight Terms: Collect

MODINE REG. COMPART

B/L: 322049698 Cross Weight:

Pro

Ship Vier

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Notice Cust Purchase Order Modine Model NO. **Foding** 

Shipped Ozdar Quantity Unit Price Ratemedon.

32202 SCHAP BRASS 32227278 4,985.16 1 4,985.16 33901

Modine Rev. Customer Rev:

NET RELEAST 6,261 LBS PER SETTLEMENT REPORT REFERENCE DUM B/L 45651, 49645

> Total Due 64.995.16

Modine Manufacturing Company

FILED RAMERUPICY 4506 62040

1500 beloven Avenue Maoine, WI 53403 Tex 10 # 35-0482000

25M MISSOURI AVE

CITY IL

CHECKTO

Customer Account: 15465000

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Bep No: R022

State: 16

2ep Order: 27347

33901 NET WT 10,920 LES

32202 REF Bt. 49825, 49693 SCRAP BRASE

Total Due

Acct Customer Part 80. Description

Modine Cast Purchase Order Modine Model NO.

IMMOTOE

8 15465000

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Pro

Ship Via:

B/L: 322049890

1 2494 NISSOURI AVE

Date Shipped: 08/27/99

P SPANITE CITY IL

\*\*HEFRINT \*\*

32227347 Modine Nev:

Modine

Order

6,635.36

Shipped

Quantity

Contoner Rev:

Unit Price

INVOICE MAMBER: 32249890

DATE: 08/27/99

PAGE: 1

RECT-TO:

MODINE MEG. COMPANY

PO BOX 75234

CHARLOTTE NC 26275-0234 FILED BANGEUFFCY 4506 62040

FUB Point: JOPLIN, MC 64801 Freight Terms: Collect

Grows Waight:

Extension

6.639.36

\$6,633.36

03/17/2008 08:24

	Modine Manufacturin 1500 DaKoven Avenue Racine, WI 53403 Tax ID # 39-0482000	•	19401	CB +12.	SPRINT**	INVOICE NO	MBER: 12250155 DATH: 09/29/29 PMGE: 1
1 1 1	CHECETCO 2604 PISSOURI AVE GRANTE CTIV IL PILED BANERUPTCY O	506 62040	p SEANITE	SOURI AVE	4808 G2040	RESTT-TO: MINISH MEG. C PO BOX 75234 CHARLOTTE MC	
Rep No: Rep Ord State: Payment	Chatomar Account: 15468000 Rep No: R022 Rep Order: 27400 State: 26 Payment Terme: Rot 30 Days Remarks:		Date Shippe Ship Via: B/L: 32305: Pro:			FOR Point: JOP Preight Terms: Gross Weight:	
Nodine Acet	Cust Purchase Order Customer Part No.	Modine Model Description	₩J.	Modina Ozdar	Shipped Quantity	Onit Price	Extension
33202 33901 REF. B/1	L 58073, 49964 GPT 2,692 LBB.	SCHAP BRASS		32227409 Modine R	1 <del>CV</del> :	1.473.64 Custoper Rev:	2,473.64
		_					

62,473.64

Total Due

Modine Manufacturing Company

SCRAP BRASS

Total Due

1500 Dakoven Avenue

REF. B/D 50415, 50382, 50259, 50191

MET WEIGHT 21,108 LBS.

Rep No: R012

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33901

04/17/2008 09:25

Recine, NI 51403 Tex ID # 39-0482000 8 15465000 REMIT-TO: CHECETO р сививасо HOOLNE MEG. COMPANY 2684 WISKORNI AVE 1 2684 MISSOURI AVE PO BOX 75234 GRANITE CITY IL P GRANITE CETT IL CEARLOFFE RC 20275-0234 FILED BANKROPTET 4506 62040 FILED BARRENTET 4506 62040 7 Customer Account: 15465000 Date Shipped: 11/12/99 FOR Point: JOPLIN, NO 64801 Ship Vie Preight Terms: Collect Map Order: 27487 B/L: 222050543 Gross Weight: Pro: Payment Tures: Net 30 Days Modine Cust Furchase Order Modine Model NO. Modine **Ehipped** Acct Customer Part NO. Description Order Quantity Onit Price Establion

32227487

Moding Rev

\*\*REPETMT\*\*

18701CR NOGER: 32250543

13,591.73

Customer Nev:

DATE: 11/12/55

13,591.73

**\$13.591.73** 

PAGE: 1

INVOICE

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Customer Account: 15465000

Rep No: 2022

Rep Order: 17461

Feynant Terms: Bat 30 Days

Remarks

32202 33901

Apolt

REF. B/L 50511 & 50452

2 01/17/2008 08:25

DIVOTOR \*\*BEPPINT\*\* INVOICE MEGRE: 32250544 DATE: 11/12/99 Modine Manufacturing Company PAGE: 1 1800 DeKryen Avenue Racine, MI 53403 Tex ID # 35-9482000

£ 15465000 PRHIT-TO: CHEMISTON A CHEMITTEE MODERN MEG. COMPANY 2664 MISSOURI AVE 1 2684 MISSCORI AVR 20 BOX 75214 GRANITE CITY IL D CHARITE CTIT IL CHARLOTTE NC 28275-0234 FILED BARRESUFFCY 4506 62040 FILED MARKEUPTCY 4506 62040 

> Date Shipped: 11/12/99 FOR Point: JOPLIN, MO 54801 Ship Vis: Preight Terms: Collect B/L: 322050544 Gross Weight: Pmo:

Mixine Cust Purchage Order Modine Model NO. Shipped Modiae Customer Part NO. Description Order Quantity Unit Price Extension SCRAP BRACS 32227468 4.216.63 1 4,416.63

Modine Ray: Contoner Rev:

MET WEIGHT 6,418 LBB. Total Dum 94,216.63

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09:25

INVOICE \*\*REPRINT\*\* INVOICE BURNER: 32250859 DATE: 12/22/95

PAGE: 1

Modine Namifacturing Coupany 1500 Delicitor Avenue Ramine, WI 53403

Tex ID # 39-0482000

COMBTCO 2684 MIESOCRI AVE GRANITS CITY IL

FILED BANKRUFTCY 4506 62040

3 13465000 à chemenço

1 2684 MISSOURI AVE

P CHARTCE CITY IL FILMO MANURUPTCY 4504 62040

T 0

Date Shipped: 12/22/99

B/L: 322050899

PTG:

POB Point: JOPLES, NO 64801 Bhip Yia:

Preight Terms: Collect

MODINE MING. COMPANY

CHARLOTTE BC 28275-0234

Gross Weight:

EENIT-TO:

PO BOX 75234

Modine

Modine Cust Purchase Order Modine Model NO. Acet Customer Fart ND. Description

Order

**Shipped** Quantity

Unit Price

Externion

32202 OCHAP BRASS 32224873 18,424.1D 18,424,10 1

33901 Modiza Bayı Customer Rev:

MEMERINE B/L 50788, 80754, 50710, 50682, 50629, 50555

NET MEIGHT 18,120 LES.

Customer Account: 15465000

Payment Terms: Not 30 Days

Rep No: ROZZ

State: 26

Remarks:

Rep Order: 24872

Total Due \$10,424.10 Ŧ

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DEVOICE MONBER: 32251227 INVOICE \*\* PEPRINT\*\* DATE: 02/21/08 PAGE: 1

1500 DaKoven Avenue Racine, WI 53403

**Hodine Hamsfacturing Company** 

Tax ID # 39-0482000

8 CHIDITATICO 1 2684 MISSORILI AVE 1 GRANITE CITY IL

FILED DAWKSUPTCY 4506 62040

B 15455000 h CHEMETCO

P GRANTES CITY IL T

i 2684 MISSOURI AVE PILED HAMERUPTCY 4506 62040

Modine

Order

Date Shipped: 02/21/00 Ship Via: B/L: 322051227

Pra

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FOR Point: JOPLES, NO 64801 Freight Terms: Collect

CHARLOTTE INC 26275-0234

Grove Weight:

PROTT-TO:

PO BOX 75334

HUDLER RPG. COMPANY

Plyment Terms: Net 10 Days Renarko :

Contober Account: 15465000

Rep No: 2022

State: 26

Hep Order: 27616

Modine Cust Purchase Order Modine Model NO. Acct Oletower Part NO. Description

Shipped Countilty

Unit Price

Extension

32202 SCRAP BRASS 32227626 9,668.72 9,658.72 33501 Modine Rev: Customer Revi

REFERENCE N/G 51127, 50517, 51011, 51079 MET MELCHT 14,204 LBS.

Total Due

49,658.72

Modine Famulacturing Company

FILED BANKEUFTCT 4506 62040

1500 Dekoven Avenue Racine, WI 53403 TAX ID # 39-0482000

2684 NISSOURT AVE

CHANITE CITY IL

CHEMISTON

Customer Account: 15465000

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State: 36 Payeent Terms: Net 30 Days

03/17/2008 09:28

Remarks:

Rep No: E022

Rep Order: 27642

Modine Cust Furchase Order Modine Model SQ. Acct Customer Part NO. Description 32202 32901 EMPERATOR B/G 51230, 51183, 51228, 51126

MET WEIGHT 14,217 LAS.

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8 15465000 h CHEMITTO 1 2684 NJSSOURI AVE

DAMOTOR

P GRANITE CITY IL FILED BANKKUPICY 4506 62040 T

Date Shipped: 02/25/00 Ship Vie: B/L: 322051254

Pzq:

FOR Point: JOPLIN, NO 64801 Preight Terms: Collect Gross Waight:

MODINE MFG. COMPANY

CHARLOTTE NC 20275-0234

PERIT-TO,

PO BOX 75234

INVOICE NUMBER: 32251294

DATE: 02/25/00

9,767.08

PAGE: 1

Modine Shipped Order Quantity **Voit Price** Beternation

32227642 1 9,767.08 Hodine Dev: CLACOMEZ REV.

SCKAP BRABS

Total Due \$9,767.08

**G**037/037

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27 F

32202

33901

NAT WRIGHT 519 188.

Total Due

THYOICE \*\*REFEINT\*\* INVOICE HORDER: 32251477 DATE: 03/22/00 Modine Manufacturing Company PAGE: 1 2500 Defeven Avenue Ranime, WI 53403 Tax 10 \$ 39-0482000 **8** 15465000 1807-TO: CHEMETCO h CHERTTO NODINE MYG. COOPANY 2684 MISSCORI AVE 1 2684 KISSOURI AVE PO BOX 75234 COURTE CENT IL P GRANITE CITY IL CHAPLOTTH NC 28275-0234 FILED BANKRUPTCY 4596 62040 PILED BARRESTTCV 4505 62040 Ŧ Customer Amount: 15465000 Date Shipped: 03/22/00 POB Point: JOPLIN, NO 64801 Rep Mo: 2022 Ship Vla. Preight Terms: Collect Rep Order: 27656 B/L: 322051477 Gross Weight: State: 26 Pro: Payment Terms: Ret 30 Days Reserve: Modine Cust Purchase Order Rodine Model NO. Modine Shipped Acet Oustoner Fart NO. Description Order Quantity Unit Price Extension SCHAP BRASS 32227695 1 330.25 330,35 Rodina Rev: Customer Eev: REFERENCE B/L 12251207 AND 32251455

\$330.35